RCRA Facility Investigation Report For Site FH-010 (Abandoned Sanitary Landfill 10)

Revised Draft

Prepared for
U.S. Army Corps of Engineers
Fort Worth District
Fort Worth, Texas

Under Contract Number DACA63-96-D-0021

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June 12, 2000

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ACRONYMS

AA Atomic Absorption

BEG Bureau of Economic Geology

BGS Below Ground Surface

CDAP Chemical Data Acquisition Plan
CQAR Chemical Quality Assessment Report

DPW Directorate of Public Works DQO Data Quality Objective

EM Electromagnetic ft Feet or Foot

GC/MS Gas Chromatography/Mass Spectrometry

ICPInductively Coupled PlasmaIDWInvestigation Derived WasteLCSLaboratory Control SamplesMCLMaximum Contaminant Level

msl Mean Sea Level

MS/MSDs Matrix Spike/Matrix Spike Duplicate

ppb Parts Per Billion ppm Parts Per Million

PQL Practical Quantitation Limit
QA/QC Quality Assurance/Quality Control

RCRA Resource Conservation and Recovery Act

RFI RCRA Facility Investigation RRS Risk Reduction Standards

SAIC Science Applications International Corporation

SVOC Semivolatile Organic Compound SWMU Solid Waste Management Unit

TCLP Toxicity Characteristic Leaching Procedure

TNRCC Texas Natural Resources Conservation Commission USACE United States Army Corps of Engineers

USDA United States Department of Agriculture

USEPA United States Environmental Protection Agency

UTL Upper Tolerance Limit VOC Volatile Organic Compound

EXECUTIVE SUMMARY

This report describes the collection and analysis of data from Solid Waste Management Unit (SWMU) FH-010 (Abandoned Sanitary Landfill 10), one of the 35 SWMUs investigated during the RCRA Facility Investigation (RFI) conducted at Fort Hood, Texas during November 1996 through March 1997. Additional investigations at this unit were conducted in May 1998 through June 1998, October 1998, and September 1999. FH-010 is approximately 15 acres in size and was a trench-type landfill primarily used for municipal solid wastes. The landfill reportedly operated prior to 1972 and was constructed in a typical manner to other landfills of that era at Fort Hood. The landfill was covered with approximately six inches of soil at the time of closure (USACE 1995). An additional two feet soil cover was added to the landfill when the baseball fields were constructed in 1985. The primary objective of the investigation at FH-010 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill.

A review of the boring logs indicates the landfill is on top of bedrock. Historical data and visual observations delineate the physical boundary of the landfill. Geophysical results for a survey conducted in September 1999 indicate the water samples that were collected at locations inside of the landfill are from perched water zones rather than from a groundwater aquifer. The data from this RFI has been evaluated using a two-part screening process according to guidance in the Texas Natural Resources Conservation Commission (TNRCC) Risk Reduction Standards [RRS (TAC 335 Subchapter S)].

All samples were collected and analyzed according to the Final RFI Work Plan (USACE 1995) and approved Work Plan Modifications (approval letter from the TNRCC dated April 21, 1998). Twenty-five soil samples and ten groundwater samples were collected during the RFI at FH-010. The number and location of the samples were adequate to provide information regarding the presence/absence of contamination; the characterization of the vertical and lateral extent of potential contamination; and the boundaries of the suspected disposal area.

Results of FH-010 surface and subsurface soil analyses of samples collected inside of the landfill indicated the presence of arsenic, cadmium, lead, and bis(2-ethylhexyl)phthalate at concentrations that exceeded the RRS Number 2 values. These constituents were all detected from locations inside of the landfill. No constituents were detected above the RRS values in samples collected outside of the landfill. Water samples collected within the landfill were from perched water zones as confirmed by the geophysical survey results rather than from a groundwater aquifer. Within the boundary of the FH-010 landfill, cadmium, lead, and vinyl chloride were detected above screening criteria in water samples. These parameters were not detected in the water sample collected outside of the FH-010 landfill at PZ103 or near the landfill boundary at PZ104 and SB 101locations. This information indicates that there has been no migration of these constituents from the landfill.

Constituents detected above screening levels within FH-010 are typical of the expected landfill debris found in landfills prior to 1972. There has been no evidence from results of samples collected outside of FH-010 that indicates the constituents found within the boundary of the landfill have migrated outside of the landfill. The potential for migration of constituents detected above background and/or screening criteria in soil and water within the FH-010 landfill can be considered low because these constituents were detected at relatively low and infrequent concentrations in samples collected at FH-010. It is recommended that Fort Hood maintain the FH-010 landfill to ensure that the integrity of the unit is not compromised and the conditions do not change at the unit that may cause a threat to human health or the environment. However, even though there is no risk outside of the unit or potential for migration from the unit, Fort Hood may plan additional voluntary clean-up action at this site as a preventative measure. The unit is operating as intended, and no mandatory further action is

necessary.

1.0 INTRODUCTION

Fort Hood is an active U.S. Army installation occupying 217,551 acres (339 square miles) in southern Coryell and Bell Counties in central Texas. It is situated 60 miles north of Austin, and about 50 miles south of Waco. The installation is located north of and adjacent to the city of Killeen, east of and adjacent to the city of Copperas Cove, and four miles south of the city of Gatesville. A vicinity map is shown in Figure 1.1.

Fort Hood began operations in 1942. Robert Gray Air Field, originally operated by the Air Force as Robert Gray Air Force Base, was established in 1947 (U. S. Army 1996a). Fort Hood's mission is training, testing, and deployment of military personnel and equipment. The post is commanded by the III Corps Commander. Currently, the post supports two full armored divisions (the 1st Cavalry and 4th Infantry Divisions). Forty-three thousand military personnel are stationed there; and an additional 30,000 family members, civilians, volunteers, and private-sector employees also live or work at Fort Hood (U.S. Army 1996b). Among the military assets of Fort Hood are approximately 2,500 tracked vehicles, over 11,000 wheeled vehicles, six fixed wing aircraft, and 230 rotary-wing aircraft. The post has 67 active firing and demolition ranges.

The Fort Hood military reservation is regulated under the Resource Conservation and Recovery Act (RCRA) as a hazardous waste management facility. Fort Hood has a RCRA permit to operate three hazardous waste storage units. The RCRA permit requires that Fort Hood perform a RCRA Facility Investigation (RFI) for 40 solid waste management units (SWMUs) listed in the permit. These SWMUs are distributed across the military reservation, in the main cantonment, West Fort Hood, and North Fort Hood. They include former solid waste landfills and burial sites, former and inactive underground storage tank locations, active wash rack/sewer systems, effluent ponds, and a sanitary sewer network. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-010 (Abandoned Sanitary Landfill 10), one of the 35 SWMUs investigated during the RFI originally conducted November 1996 through March 1997. Additional investigations at this unit were conducted in May through June 1998, October 1998, July and September 1999. SWMU FH-010 is located on the west side of Clear Creek Road and north of Battalion Avenue.

1.1 BACKGROUND

SWMU FH-010, approximately 15 acres in size, was a trench-type landfill primarily used for municipal solid wastes and concrete rubble. The construction and usage of FH-010 was typical of other landfills found at Fort Hood. The landfill reportedly operated prior to 1972. The depth of the trenches is unknown (U.S. Army Corps of Engineers [USACE] 1995). The landfill was covered with approximately six inches of soil at the time of closure (USACE 1995). An additional two feet of soil cover was added and two baseball fields were constructed at the site in 1985. The baseball fields known as Buildings 52391 and 52392 include dugouts, parking areas, fencing, and electric lighting (Hood 1991).

During formulation of the RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995), aerial photographs taken in the mid-1970s were found that clearly show the outlines of the landfill trenches. Physical evidence of the landfill operations is no longer visible at the site (USACE 1995). The Base Information Mapping at Fort Hood did not show any landfill or other features at this location, therefore, the footprint of the landfill was determined by the aerial photographs and by locating adjacent manmade features.

No investigations prior to the RFI were conducted at FH-010 and no leachate or seeps has been observed at the landfill. The landfill was anticipated to contain typical municipal solid waste and concrete rubble found in uncontrolled landfills that were in operation prior to 1972.

1.2 SCOPE AND OBJECTIVES

The primary objective of investigation at FH-010 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill. Sampling for the RFI focused on determining the concentrations of heavy metals and organics. The specific objectives of the investigation at this SWMU were as follows:

- determine/confirm the presence or absence of contaminants in the soils at the landfill;
- determine the vertical and lateral extent of soil contamination at the landfill, where practicable;
- determine if groundwater is present below the landfill and if present, determine if the groundwater is contaminated:
- characterize the migration potential of any contaminants identified in the soils beneath the landfill; and
- obtain information about the local geological conditions at the landfill.

In addition to the specific objectives stated in the RFI for FH-010, the following are objectives for all SWMUs:

- evaluate the potential human health risks associated with contaminants detected in surface and subsurface soils; and
- determine what, if any, corrective measures are needed to address contamination associated with the SWMU.

The approach to the RFI included field sampling and laboratory analysis of surface and subsurface soils, and groundwater at this SWMU. Because of the lack of data previously collected for this site, a geophysical investigation of the landfill was conducted for this RFI. The initial sampling and analysis program was conducted in December 1996 in accordance with the Final RCRA Facility Investigation Work Plan, 35 Solid Waste Management Units, Fort Hood, Texas (Final RFI Work Plan [USACE 1995]). Additional sampling and analysis was performed in accordance with approved Work Plan Modifications (approval letter from the Texas Natural Resource Conservation Commission [TNRCC] dated April 21, 1998) and samples were collected in May through June 1998 and in October 1998. The sampling events conducted during 1998 indicated the presence of vinyl chloride in water samples collected within the limits of the landfill boundary. In an effort to further delineate the area, geophysical surveys were conducted in June 1999 and in September 1999. Additional water samples were collected for vinyl chloride analysis from within the limits of the landfill boundary based on the results of the geophysical surveys.

Initial sampling of landfill units in 1996 at Fort Hood was conducted during a period of unusually high precipitation. It was documented at that time that these landfill units were either saturated or contained areas of perched water. Because the base of the landfills rests on the bedrock surface, there was a question as to what happens to the water contained within the landfills. To address this question, piezometers were installed in an upgradient/downgradient detection monitoring type scheme around the landfill. Four piezometers were installed and groundwater samples were taken at FH-010 in May through June of 1998. Placement of piezometers was based on bedrock conditions and the depth at which water was encountered.

Groundwater sample results indicated the presence of vinyl chloride within the boundaries of the landfill. In order to evaluate the vertical and lateral extent of potential contamination and to physically characterize the

landfill, geophysical surveys using electrical imaging (EI) were conducted and followed up with collection of additional water samples for analyses. This last round of sampling conducted in September 1999 used cone penetrometer technology (CPT) for sample collection that were advanced in the locations identified by the geophysical survey as being saturated zones and containing water. The geophysical surveys and additional sampling was not required to complete the RFI, but was conducted by Fort Hood as a proactive voluntary effort to ensure the conditions at the landfill pose no risk.

2.0 ENVIRONMENTAL SETTING

The material presented in this section describes the physical characteristics of SWMU FH-010 and its surroundings. The geology, physiography, and climate are presented using regional and site-specific data where available.

2.1 PHYSIOGRAPHIC SETTING

Fort Hood is located within the eastern edge of the Lampasas Cut Plains region of the North-Central Plains physiographic province. The topography of Fort Hood consists of small stream valleys separated by ridge-forming mesas. Relief is as great as 340 ft. The Black and Blackwell Mountains are prominent features north of the main cantonment, as are Seven Mile Mountain at West Fort Hood, and the Dalton Mountains southwest of North Fort Hood. A topographic map of the main cantonment of Fort Hood is provided in Figure 2.1.

Local relief on the main cantonment and at West Fort Hood is generally less than 100 ft, with flat to gently rolling topography. Elevations on the main cantonment range from 860 to 940 ft above mean sea level (msl). The elevation at SWMU FH-010 is approximately 900 feet above mean sea level (msl). The site slopes to the west towards an unnamed tributary of Clear Creek that drains the site.

The rivers, streams, and creeks that constitute the main surface water pathways at Fort Hood are shown on Figure 1.2. Fort Hood lies along a watershed divide between Belton Lake drainage basin and the Leon River. The western and north-central parts of the main cantonment are drained by Clear Creek, which discharges to House Creek. House Creek is a tributary to the eastward-flowing Cowhouse Creek, which discharges to Belton Lake, a man-made reservoir. South Nolan Creek and North Nolan Creek both originate on Fort Hood and flow eastward to the Leon River, below Belton Lake.

2.2 GEOLOGIC CONDITIONS

A summary of the geology of the Fort Hood area relevant to this RFI is adapted from the Final RFI Work Plan (USACE 1995).

2.2.1 Bedrock

Lower Cretaceous marine sedimentary rocks make up the stratigraphy underlying Fort Hood. The Fredericksburg Group consists of several stratigraphic units. The Walnut Formation is the lowermost unit of the Fredericksburg Group and is the dominant stratigraphic unit in the main cantonment. It consists of shales with interbedded limestone, chalky nodular limestone, and shell aggregates. The fossiliferous Walnut Formation is exposed in many locations at Fort Hood. It varies in thickness from 100 to 150 ft (Bureau of Economic Geology [BEG] 1979). The Commanche Peak Formation and an undifferentiated unit overlie the Walnut Formation, but are present at the surface only north of the main cantonment in the Black and Blackwell Mountains, and on West Fort Hood on Seven Mile Mountain. Bedrock dips gently to the southeast throughout the area. Inactive faults are present in the subsurface to the east of Fort Hood along the Balcones Fault Zone, which runs through Bell, McLennan, and Hill Counties.

2.2.2 Unconsolidated Materials

Alluvial deposits of Quaternary age are present along stream valleys on the main cantonment, specifically along South Nolan Creek on the southern edge of the cantonment (USACE 1995). It is suspected that much alluvium and other natural surface deposits have been reworked throughout the active life of Fort Hood during construction projects.

2.3 CHARACTERIZATION OF SOILS

In many areas of the main cantonment, silty or sandy clay soils overlie bedrock. During the April 1998 investigation, differentiation between the unconsolidated soil and the underlying bedrock was made by the difference in color. During the previous field investigation it had been noted that the uppermost tan colored limestone and gravelly silty clays were more weathered than the underlying blue-gray limestone/limey-shales. It was ascertained that the tan color is evidence of the weathering processes occurring close to the surface of the ground. In upland areas, these unconsolidated soils consisted of silty clay with abundant rock fragments (weathered fossiliferous limestone and chert nodules) with weathered laminations of shale and limestone. In general, these soils have low permeabilities (U.S. Department of Agriculture [USDA] 1985a,b). Because soils have been extensively reworked for construction and landfilling in the SWMUs that were investigated, it is difficult to apply the USDA classification to the soils encountered on the main cantonment.

From the information provided in the boring logs (Appendix A), the blue-gray limestone/limey-shales were encountered at depths of 23 to 28 ft BGS in soil borings SB101, SB103, SB104, SB105, and SB106. Piezometer boring logs indicate that silty clay and limestone fragments were encountered at depths of approximately 27 ft BGS at PZ101; 17 ft BGS at PZ102 and PZ103; and 10 ft BGS at PZ104. No logs are available for the cone penetrometer (CPT) sampling round. During this last sampling round the clay/limestone soil made it difficult to push the cone and resulted in no recovery, therefore, no soil samples for characterization.

2.4 CHARACTERIZATION OF CLIMATE

The climate of the Fort Hood-Killeen area can be characterized as semi-arid continental. Winters (December-March) are mild, with the average daily maximum temperature in January (the coldest month) reaching 60 degrees Fahrenheit (°F). Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature range is 42 to 62° F. At times, strong northerly winds accompanied by sharp drops in temperature occur during the winter months. Summers (June-September) are hot and dry. The average daily maximum temperature in August, the hottest month, reaches 95.9° F. The normal daily temperature range for summer is 75 to 95° F. The average daily temperature in Killeen is 68.1° F.

Average annual rainfall in the Killeen area is 30.4 inches, and is most concentrated from September to May (U.S. Army 1996b). Snowfall is rare. The average annual humidity in the region is 55 percent. Severe weather in the form of heavy rain, hailstorms, and ice storms is common in the winter months.

3.0 UNIT CHARACTERIZATION

SWMU FH-010 is an abandoned sanitary landfill that has been covered with two feet of native soil and now is the location of two baseball fields. Local relief at FH-010 is approximately 10 ft, ranging in elevation from appproximately 890 ft above msl along the southern and western boundaries to 900 ft above msl at the center of the FH-010. The surface area of the landfill is sparsely vegetated with grass and slopes to the west towards an unnamed tributary of Clear Creek that drains the site. SWMU FH-010 is approximately 15 acres in size. The trench method of disposal reportedly operated prior to 1972 at the landfill. A review of the boring logs indicates the landfill is on top of bedrock. Precipitation has likely ponded on low areas of the landfill and infiltrated the landfill cover. The soil boring logs and the geophysical surveys indicate that the water samples that were collected from locations within the landfill boundary were from perched water zones rather than from a groundwater aquifer, and that the perched water conditions may be seasonal.

The landfill was constructed in native soil. The construction and usage of FH-010 was typical of the other landfills at Fort Hood constructed during that era. Based on the soil boring logs the material found in the FH-010 landfill reportedly contains municipal solid wastes. Specific types of debris identified during drilling activities at FH-010 and recorded on soil boring logs (see Appendix A) include asphalt, brick and wood at SB101, wood at SB105, plastic (visqueen) at SB106, and plastic, garbage, and wood at SB107. Photographs of the site were taken in January 1999 and are presented in Figure 3.1.

3.1 GEOPHYSICAL SURVEY RESULTS

Groundwater sampling performed during December 1996 and again in October 1998 revealed the presence of vinyl chloride at two locations that are close to each other and within the limits of the landfill at FH-010. As a result of these findings, geophysical investigations were performed in June 1999 and September 1999 to locate potential water zones in the area of these two locations. The initial geophysical survey conducted in June 1999 provided data that was insufficient for characterization near a sewer utility that trended north to south approximately 100 meters east of SB102 and that could be a potential migration pathway in this area. The September 1999 geophysical survey provided additional information on the characterization of the saturated zones in the proximity of SB102. The results of the geophysical surveys were then used to model and identify the potential saturated zones.

The geophysical surveys were conducted using electrical imaging (EI) technology. See Appendix B for the geophysical report. EI involves measuring the resistivity of the landfill subsurface and producing an image from the electrical properties of the subsurface. A total of eleven EI traverses were investigated during the geophysical surveys. The EI traverses pass near locations where geological information is available. Traverses FH10-1 through FH10-4 all intersect soil boring SB102. Traverse FH10-5 intersected FH10-1 and FH10-3. Traverse FH10-6 was centered on piezometer PZ101. FH10-7 and FH10-8 paralleled the sewer utility, while FH10-9 and FH10-10 intersected the utility. The EI survey results were modeled with Earth Vision software to provide a three-dimensional model of saturated water zones. See Appendix B.

The conclusion of the surveys and the information provided during the RFI indicates that the groundwater is not true groundwater but rather perched water within the landfill that has a low chance for migration. Conditions had not changed between initial sampling in December 1996 and September 1999 at FH-010. Groundwater was not noted in all of the soil borings in the landfill, and based upon the geophysical survey and modeling results, the groundwater that was observed is believed to be an isolated perched zone, not a continuous aquifer. The potential for migration of water identified within the boundary of the landfill is quite low due to the predominantly silty clay lithology at FH-010 that inhibits the mobility of any contamination. Additionally, bedrock underlies the landfill and limits potential migration.

The maps provided as a result of the survey identified potential saturated zone locations for sampling within the boundary of the landfill near SB102 and SB107 for characterization of the vinyl chloride in FH-010. Once perched water zones were identified, water samples were collected and analyzed for vinyl chloride to determine the vertical and lateral extent of potential contamination within the landfill. Complete geophysical survey results of FH-010, including the Electrical Imaging (EI) modeled three dimensional saturated zone maps, are provided in Appendix B.

4.0 CHARACTERIZATION OF UNIT CONTAMINATION

The following sections describe the results of field activities and analytical procedures performed to achieve site specific objectives defined in Section 1.2 of this report.

4.1 TECHNICAL APPROACH

Four sampling events were conducted at FH-010. The first took place in December 1996 and all samples were collected from within the landfill boundary, in accordance with the approved Final RFI Work Plan (USACE 1995). A second sampling event occurred in May through June 1998. Piezometers were installed in an upgradient/downgradient detection monitoring type scheme around the landfill to determine if any contaminants detected in the landfill have migrated outside of the landfill. On October 30, 1998 soil and groundwater samples were collected from a single boring (SB107) advanced adjacent to SB102 to confirm the presence of vinyl chloride detected at SB102. The fourth sampling event using cone penetrometer technology (CPT) occurred in September 1999 based on the geophysical investigation results for the determination of the groundwater sample locations.

Both surface (0 - 2 ft BGS) and subsurface soils (> 2 ft BGS) were sampled at FH-010. Different soil depths were sampled in order to provide data necessary to evaluate the potential human health risks associated with contaminants at the site and to better characterize the potential extent of contamination present in different soil strata. Contaminant concentrations will vary based on soil depth due to the chemical nature of the contaminant and the method by which the contaminant is deposited in the soil (i.e., spills, leaks, and atmospheric deposition). Concentrations at the surface of the soil may differ greatly from subsurface levels. In addition, analysis of different soil levels is necessary to accurately evaluate the human health risks associated with the contaminants. Exposures based on surface or direct contact will differ from exposure, if any, associated with contaminants in deeper soils. Combining surface and subsurface data may result in a database that is not truly representative of actual exposure at the site. At FH-010 direct contact with surface soils is more likely than contact with deeper soils.

Groundwater was sampled when found from soil borings advanced inside the landfill, piezometer locations at the boundary and outside of the landfill, and from CPT borings advanced within the boundaries of FH-010 to determine if contaminants were present in groundwater. Sample identifications and associated analyses for all soil and groundwater samples collected at FH-010 are summarized in Table 4.1.

4.1.1 Soil Sampling Investigation

The locations of the sampling points at FH-010 are shown in Figure 4.1. All subsurface soil borings with the exception of SB107 were drilled using a truck-mounted hollow-stem auger rig. SB107 was advanced using a Geoprobe unit. Soil samples from subsurface borings were collected using a 5-foot continuous downhole sampling device. Downhole, breathing zone, and headspace organic vapors were monitored during sampling activities. Hand auger samples were collected using a stainless steel hand augering device. All initial soil sampling, sample handling, chain-of-custody, and other field activities were conducted in December 1996 in accordance with the Final RFI Work Plan (USACE 1995) and the Chemical Data Acquisition Plan (USACE 1997 [CDAP]). During formulation of the RFI Work Plan, it was believed that unconsolidated material existed below the depth of the landfills at Fort Hood. Soil samples were originally to be collected from depths above and below the landfill, but during initial sampling activities, it was discovered that the landfill material rested on bedrock, which prohibited the collection of subsurface soil samples beneath the depth of the landfill. A subsurface sample was collected beneath the depth of the landfill in borings where a sufficient amount of

weathered or unconsolidated material was present below the landfill material. Only subsurface soil samples were collected during the installation of piezometers.

A second round of soil sampling was conducted during the installation of four piezometers in May and June 1998 and a third round of one soil boring was conducted in October 1998. Sampling was in accordance with the Final RFI Work Plan (USACE 1995) and Work Plan Modifications (TNRCC, April 21, 1998). Following sampling activities, all soil borings were closed in accordance with applicable requirements. Upon completion of the RFI, all piezometers will be abandoned in accordance with applicable requirements and abandonment reports will be submitted to the TNRCC.

A total of seven surface soil and eighteen subsurface soil samples were collected at FH-010 during advancement of seven subsurface soil borings (SB101 through SB107) and four piezometers (PZ101 through PZ104). Soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The boring logs for FH-010 are provided in Appendix A.

Four piezometers (PZ101, PZ102, PZ103, and PZ104) were installed at FH-010. PZ101 and PZ102 were advanced into bedrock and PZ103 and PZ104 were advanced into the unconsolidated material. Blue-gray bedrock was encountered at a depth of approximately 24 ft BGS on the southeastern side of the landfill in piezometer PZ103, and at depths of 15 ft BGS and 25 ft BGS at PZ102 and PZ104 on the northwest side of the landfill. In the southcentral area of the landfill, the blue-gray bedrock was encountered at a depth of 18.5 ft BGS in piezometer PZ101. The blue-gray limestone and shale bedrock was overlain by yellow silty clays containing weathered limestone fragments. Landfill debris including trash, asphalt, brick, plastic, or wood was encountered in borings SB101, SB102, SB 105, SB106, and SB107.

4.1.2 Groundwater Sampling

A total of ten groundwater samples (Table 4.1) were collected during the investigation of FH-010. See Figures 4.1 and 4.2. One groundwater sample was collected in December 1996 when groundwater was encountered during installation of the soil boring at SB102. Another groundwater sample was collected from the soil boring at SB107 in October 1998 to confirm the SB102 results. Groundwater samples were also collected in June 1998 from two of the four newly installed piezometers (PZ103 and PZ104). PZ103 and PZ104 were advanced into unconsolidated material and characterized groundwater above bedrock. No samples were collected from PZ101 and PZ102 that were advanced into bedrock to characterize the groundwater within the bedrock. The four groundwater samples were analyzed for VOCs, SVOCs, and metals. Based on the analytical results of the groundwater samples collected at SB102 and SB107, the 1999 geophysical surveys were conducted and provided additional information on the characterization of the saturated zones in the proximity of SB102. CPT was then employed to collect additional groundwater samples near these two locations in the suspected saturated zones identified by the geophysical surveys to characterize potential contamination. A total of sixteen CPTs were advanced and groundwater was encountered and sampled at only six of these CPT locations. These six samples were analyzed for vinyl chloride only. Groundwater was collected and analyzed in accordance with the Final RFI Work Plan (USACE 1995), Work Plan Modifications (TNRCC, April 21, 1998) and CDAP. Upon completion of the RFI, all piezometers will be abandoned in accordance with applicable requirements and abandonment reports will be submitted to the TNRCC.

4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS

Analytical results for soils at SWMU FH-010 (validated data and laboratory result forms) are provided in their entirety in Appendix C. Tables 4.2 and 4.3 summarize constituents detected above practical quantitation limits (PQLs) in soil and groundwater, respectively. The constituents detected above PQLs were screened against

background and risk-based screening criteria as described in Section 4.3 and Section 5.0.

4.2.1 Surface Soil Analytical Results

All surface soil analyte results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in surface soils include: arsenic (3.4 parts per million [ppm] at SB105 to 5.5 ppm at SB104), barium (23.5 ppm at SB105 to 55.3 ppm at SB106), cadmium (0.07 ppm at SB105 to 0.58 ppm at SB104), chromium (6.0 ppm at SB103 to 10.2 ppm at SB104), lead (3.5 ppm at SB105 to 13.9 ppm at SB104), and mercury (0.05 ppm at SB107).

VOCs detected above PQLs in surface soils in the FH-010 samples include acetone, and toluene. Acetone was detected at 140 parts per billion [ppb] at SB105. Toluene was detected at two locations SB105 and SB106 at concentrations of 7 ppb and 10 ppb, respectively. No SVOCs were detected above PQLs in surface soils at FH-010.

4.2.2 Subsurface Soil Analytical Results

All subsurface soil analytical results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in subsurface soils include: arsenic (1.9 ppm at SB105 to 13.3 ppm at SB106), barium (1.8 ppm at SB105 to 53.3 ppm at SB107), cadmium (0.06 ppm at SB101 to 2.2 ppm at SB107), chromium (1.1 ppm at SB105 to 11.5 ppm at SB107), lead (2.0 ppm at SB105 to 99.7 ppm at SB107), selenium (0.25J ppm at PZ102 and 0.26J at PZ101) and mercury (0.07 ppm at SB107).

VOCs detected above PQLs in subsurface soils in the FH-010 samples include: acetone, chlorobenzene, isopropyl benzene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, tert-butylbenzene, methylene chloride, trichloroethene, and toluene. Acetone, n-butylbenzene, trichloroethene, and toluene were each detected in subsurface soil samples at multiple locations with concentrations in the following ranges: acetone (6 ppb at PZ101 to 420 ppb at SB103), n-butylbenzene (6 ppb at PZ102 to 1400 ppb at SB107), trichloroethene (8 ppb at SB104 to 11 ppb at SB103) and toluene (15 ppb at SB103 to 32 ppb at SB101). Methylene chloride was detected in subsurface soils at one location (PZ104) at a concentration of 12 ppb (15-15.5 ft BGS). Chlorobenzene (180 ppb), isopropyl benzene (86 ppb), n-propylbenzene (210 ppb), sec-butylbenzene (1100 ppb), and tert-butylbenzene (17 ppb) were detected in subsurface soils at one location (SB107) at a depth of 12-14.2 ft BGS.

SVOCs were only detected above PQLs in subsurface soils collected at SB107 at a depth of 12-14.2 ft BGS. The SVOCs included 1,4-dichlorobenzene, 2-methylnaphthalene, bis(2-ethylhexyl)phthalate, dinbutylphthalate, n-nitrosodiphenylamine, naphthalene, and phenanthrene. The concentrations of these SVOCs range from 590 ppb for 2-methylnaphthalene to 2600 ppb for bis(2-ethylhexyl)phthalate. All subsurface soil analytical results above PQLs are presented in Table 4.2.

4.2.3 Groundwater Analytical Results

Table 4.3 presents all of the groundwater analytical results above PQLs. Inorganic constituents detected above PQLs in groundwater at FH-010 include: arsenic (21.5 ppb at SB102 to 23.4 ppb at SB107), barium (76.9 ppb at PZ104 to 506 ppb at SB107), cadmium (7.6 ppb at SB107), chromium (5.7 ppb at PZ103 to 39.2 ppb at SB107), lead (1.6 ppb at PZ104 to 248 ppb at SB107), and mercury (0.47 ppb at SB107).

VOCs were detected above PQLs in groundwater in the FH-010 samples. PZ103 exhibited only one VOC detection (6 ppb chlorobenzene at PZ103). VOCs detected at SB102 ranged in concentration from 6 ppb to 79

ppb and included 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,4-dichlorobenzene, chlorobenzene, ethylbenzene, isopropyl benzene, m,p-xylene, n-propylbenzene, o-xylene, and vinyl chloride. VOCs detected at SB107 ranged in concentration from 7 ppb to 84 ppb and included 1,4-dichlorobenzene, chlorobenzene, n-propylbenzene, and vinyl chloride. The last round of groundwater sampling, conducted in September 1999, resulted in the detection of vinyl chloride above the PQL at 4 of the 6 CPT locations. The vinyl chloride concentrations ranged from 0.87 ppb at CPT109 to 19 ppb at CPT 101.

Three SVOCs were detected above PQLs in groundwater at FH-010. The SVOCs that were detected at SB102 include: 1,4-dichlorobenzene, n-nitrosodiphenylamine, and naphthalene at concentrations of 27 ppb, 5 ppb, and 50 ppb, respectively. Naphthalene and 1,4-dichlorobenzene are also reported as a VOC. However, for this investigation SVOC results for naphthalene and 1,4-dichlorobenzene have been used to interpret investigation results because this is the more appropriate analysis method for these constituents. No other VOCs or SVOCs were detected in groundwater at FH-010.

4.2.4 Disposition of Investigation Derived Waste (IDW)

All IDW generated during drilling at FH-010 was stored in 55 gallon drums. All drums were clearly identified with the drum's contents, the date they were filled, and the SWMU where the IDW was generated. Drums were staged in the Science Applications International Corporation (SAIC) compound pending disposition. Analytical results from the corresponding soil samples were used to determine whether a drum=s contents were non-hazardous or potentially hazardous. Contaminant levels were screened against the RCRA A20 times@ rule for the Toxicity Characteristic Leaching Procedure (TCLP). Provisions were made for TCLP sampling of any solid IDW drums that did not meet the A20 times@ criteria. When a site soil sample concentration for a hazardous constituent was twenty times or greater than its respective leachate concentration listed in 30 TAC Chapter 335, Subchapter R, Appendix 1, Table 1, a sample was collected. All solid IDW determined to be non-hazardous by this method is transported to the Fort Hood Sanitary Landfill for disposal. All solid IDW determined to be potentially hazardous is delivered to the Fort Hood Directorate of Public Works (DPW) Classification Unit with the accompanying characterization data.

All solid IDW at FH-010 was placed in twenty-five 55-gallon drums and was determined to be non-hazardous. The solid IDW was then transported to the Fort Hood Sanitary Landfill for disposal. All liquid IDW generated for this SWMU resulted from the decontamination of the drilling rig and other sampling equipment and well development/purge water and was placed in thirteen 55-gallon drums. Liquid IDW was determined to be non-hazardous and was disposed of in the 1st Calvary Division Tactical Vehicle Wash Facility. The drums containing the non-hazardous liquid are expected to contain a significant amount of sediment. For this reason, disposal at the 1st Calvary Division Tactical Vehicle Wash Facility was determined to be more appropriate than discharging the liquid to the sanitary sewer system. The Vehicle Wash Facility is a closed loop system consisting of three ponds used to settle out the dirt and sediment washed off the armored vehicles.

4.3 BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS

In order to characterize naturally occurring constituents in soils at Fort Hood, samples were located and collected at 10 separate locations within the facility boundaries in the north, west, and main cantonments. Sampling locations are believed to be outside the influence of past or current industrial and/or waste activities at the facility. The general background sampling locations are presented in Figure 4.2. Background soils data and soil boring logs are presented in Appendices D and E, respectively.

Samples were analyzed for the following metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. There were only 40 valid background sample results for selenium due to quality assurance/quality control (QA/QC) problems with the selenium data. A discussion of the data QA/QC is presented in Section 6.1. Mercury was detected in only 1 of 43 soil samples and selenium in 2 of 40 background samples. Silver was not detected in any background soil samples.

Two statistical methods presented in the Final RFI Work Plan (USACE 1995) can be used to determine if there is a statistically significant difference between background soil concentrations and the concentrations of metals detected in SWMU samples. Background statistical calculations were determined by combining metal results from surface soils (0-2 ft) and subsurface soils (>2 ft). The statistical methods used to evaluate the background soil results are presented in Section 6 of the Final RFI Work Plan (USACE 1995). The methods include a 95% upper tolerance limit (UTL) calculation and an overall data set mean background concentration. The 95% UTL is an estimate of the 95th percentile of the population of background concentrations. The UTL is a value such that, with a high degree of confidence, 95% of all concentrations would be less than the UTL value. Results of the 95% UTL calculation are presented in Table 4.4. For inorganic parameters where the distribution was neither normal nor lognormal and where there were less than 50% detects, the maximum concentration detected was used in place of the 95% UTL. For inorganic parameters where there were no detects in the background samples, the PQLs were used in place of the 95% UTLs as the background comparison value. The 95% UTL background value for soils was used as the primary background screening criteria for inorganics.

The second statistical method to be used is either a mean comparison using the t-test, or the Wilcoxon (Mann-Whitney) Test. The use of these tests is dependent on the distribution of the data set. The t-test is to be used on data sets that have a normal distribution or that can be transformed to a normal distribution. According to the Final RFI Work Plan (USACE 1995), if the data set is not normally distributed and the t-test is not appropriate, a nonparametric method, the Wilcoxon Test, is to be used to test the difference in the background versus the data set. The flow chart from the Final RFI Work Plan (USACE 1995) used for the statistical evaluations is provided in Appendix E. Results of calculations for the 95% UTLs, means, standard deviations, and the Wilcoxon Test for FH-010 data are also presented in Appendix F.

Arsenic and mercury were detected in soil at FH-010 at concentrations greater than the 95% UTL soil background concentration or PQL. Further statistical analysis was performed for arsenic only. Due to a lack of detected values in the background data set for mercury, no further analysis was performed for this metal. The Wilcoxon Test for arsenic detected in soil at FH-010 resulted in an absolute Z value of 1.72 versus the critical Z value of 1.645 for a one-tailed test. This indicates there is a slight difference between the background soil arsenic data and FH-010 soil arsenic data. However, there is no known source for arsenic other than possible historic pesticide applications at Fort Hood. Arsenic is ubiquitous in soil and has been a widely recognized problem by both TNRCC and EPA. Detection might rather be a random occurrence rather than a true indication of in-place contamination.

5.0 SCREENING ANALYSIS

The TNRCC has promulgated Risk Reduction Standards (30 TAC 335, Subchapter S) for soils and groundwater for residential and industrial land uses. Risk Reduction Standards (RRSs) Number 1 are defined as background concentrations or analytical PQL values, whichever are greater. RRSs Number 2 are health-based standards and criteria that are deemed protective of human health or the environment. The TNRCC RRSs have been used to screen the data generated at FH-010 to determine whether or not constituents are present at the site at concentrations which may warrant further investigation.

The TNRCC RRSs Number 1 are used to determine if there are hazardous constituents at a SWMU that could result from a potential release. Soil sample results were compared to the 95% UTL background concentration levels or PQLs. Background soil levels were determined for eight metals and the results are presented in Table 4.4. Metals detected above background levels and organic constituents above PQLs are considered to be a potential release from the unit. Organic constituents in soils reported above the analytical PQL were then screened against the TNRCC RRSs Number 2 (30 TAC 35 Industrial Soil GWP). Appendix G provides a tabulation of detected results and the screening criteria used for comparison. Tables 5.1 and 5.2 show analytes detected above screening criteria in soil and groundwater, respectively. No TNRCC RRS Number 2 screening values are available for phenanthrene, therefore, anthracene was identified and used as a surrogate compound for obtaining screening values.

5.1 SURFACE SOIL SCREENING

All inorganic and organic constituents detected above screening criteria in surface soils at FH-010 were from locations within the landfill boundary. The results presented in Table 4.2 and discussed in Section 4.2.1 were screened against TNRCC RRSs Number 1 and Number 2. Mercury, acetone, and toluene were detected in surface soils above the RRSs Number 1 (95% UTLs or PQLs) within the landfill boundary. Comparison of these results to the RRSs Number 2 for mercury, acetone, and toluene for the soil to groundwater cross-media protection pathway for these parameters indicated the RRS values were not exceeded. Therefore, for surface soils no inorganic or organic parameters present a risk to humans or the environment.

5.2 SUBSURFACE SOIL SCREENING

Arsenic, cadmium, lead, and mercury were the inorganic constituents detected in subsurface soils at concentrations above the 95% UTL background concentrations (PQL for mercury). Arsenic was detected at PZ101 and at two depths at SB106 with concentrations ranging from 11.4 ppm to 13.3 ppm which are slightly above the background criteria of 9.2 ppm. Cadmium and lead were detected at SB107 at concentrations above the background soil screening criteria in subsurface soils from samples collected at FH-010. Mercury at a concentration of 0.07 ppm did not exceed the RRS Number 2 criteria. Metals are elements which are ubiquitous in soils, and it is recognized there is an inherent heterogeneity of metals concentrations in soils resulting in highly variable analytical results. It appears such is the case for the detection of arsenic, lead, and cadmium in the subsurface soils. Based on professional judgement and the magnitude and the frequency of the lead and cadmium detections, it was determined the one sample location with elevated concentrations was not indicative of a release to the environment. Arsenic at the concentrations found at FH-010 poses no risk because there is no known source for arsenic other than possible historic pesticide applications at Fort Hood. Arsenic is ubiquitous in soil and has been a widely recognized problem by both TNRCC and EPA. In recognition of this problem the TNRCC has in the past proposed and supported an arsenic soil clean-up level of 20 mg/kg that is well above the concentrations found in FH-010 subsurface soils.

Organic constituents were present at FH-010 that exceeded the RRSs Number 1 (PQLs) values and included both VOCs and SVOCs. The VOCs detected above PQLs in subsurface soils in the FH-010 samples include: acetone, chlorobenzene, isopropyl benzene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, tertbutylbenzene, methylene chloride, trichloroethene, and toluene. The SVOCs included 1,4-dichlorobenzene, 2-methylnaphthalene, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, n-nitrosodiphenylamine, naphthalene, phenanthrene. The VOCs and SVOCs were further screened against RRSs Number 2 values developed by the TNRCC or a surrogate value as in the case of phenanthrene where anthracene was used as surrogate compound for screening criteria. This screening resulted in bis(2-ethylhexyl)phthalate, a common laboratory contaminant detected at a concentration of 2.6 ppm as the only compound which slightly exceeded the RRS Number 2 value of 2.04 ppm. Based on best professional judgement, no risk is posed by this compound because as a common laboratory contaminant the result is an anomaly.

The low frequency and concentration of detected compounds such as lead, cadmium, and bis(2-ethylhexyl)phthalate; the ubiquitous nature of metals in soils; the TNRCC proposed arsenic clean-up level of 20 mg/kg; and the inherent heterogeneity of concentrations in soils resulting in highly variable analytical results lead to the conclusion that the organic or inorganic contaminants detected above the RRS Number 2 screening criteria in subsurface soils pose no risk to human or environmental health. No organic or inorganic compounds were detected beyond the boundaries of the landfill. Complete results of the subsurface soil screening analysis are presented in Table 5.1 and in Appendix G.

5.3 GROUNDWATER SCREENING

Inorganic and organic constituents were detected at concentrations above the corresponding maximum contaminant levels (MCLs) or RRSs in groundwater at FH-010. Cadmium, lead, and vinyl chloride were detected above TNRCC RRSs Number 1 and 2 values in groundwater at FH-010. No organic or inorganic contaminants were detected above the RRS Number 2 screening criteria in groundwater collected beyond the boundaries of the landfill. Based on professional judgement and the magnitude and the frequency of the lead and cadmium detected concentrations, it was determined the one sample location (SB 107) with elevated concentrations was not indicative of a release to the environment. Results of the groundwater screening analysis are presented in Table 5.2 and in Appendix G.

6.0 INVESTIGATION ANALYSIS

6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL

The Fort Hood RFI Work Plan, the contract laboratory=s Quality Assurance Plan, and U.S. Environmental Protection Agency (USEPA) SW-846 or other approved procedures for analytical chemistry and physical testing methods were followed for field and laboratory QA/QC of FH-010 samples. According to the Work Plan, QA and QC samples were to be collected at a frequency of ten percent and analyzed along with the environmental samples. Field QC samples for FH-010 included trip blanks and equipment rinsate blanks. Quality control analyses such as matrix spikes, blanks, and laboratory control samples were conducted by the contract laboratory as an internal control measure of the accuracy and precision of the data. Quality assurance sample analyses were performed by the Army Corps of Engineers= Southwest District Laboratory as an external control measure of the accuracy and precision of the contract laboratory=s results and of sampling procedures. The QA/QC and corresponding field sample results are reviewed by Army Corps of Engineers quality assurance personnel, who then issue a Chemical Quality Assurance Report (CQAR).

Laboratory QC procedures as prescribed by each analytical method were followed by the contract laboratory and included where applicable: gas chromatography/mass spectrometry (GC/MS) tuning, initial and continuing calibrations, method/extraction blanks, laboratory control samples (LCS), surrogate spikes, internal and external standards, duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), inductively coupled plasma (ICP) and atomic absorption (AA) related QC procedures/samples, and spiked sample clean-up results.

The CQAR addressed concerns with the FH-010 data. Concerns included missing internal QC data (mainly MS/MSD results), two trip blanks that arrived at the laboratory with bubbles larger than 6mm, and one trip blank that arrived at the laboratory frozen. Other concerns were the potential for data to be biased (high or low) and the potential for false positives or negatives based on matrix spike and laboratory control spike deviations from QC criteria for a number of analytical parameters. The comparison of the field sample, QC, and QA split sample results agreed for most analytes except for the following constituents in some cases: acetone, arsenic, barium, cadmium, chromium and lead. The deviations did not lead to rejection or qualification of the data. Based on the CQAR findings, the data are usable and have met the project data quality objectives (DQOs).

Data QA/QC procedures included an independent data validation of ten percent of the results for compliance of analyses to DQOs. All FH-010 data that were reviewed for data validation met project DQOs and are usable data as qualified, with the exception of selenium results for 10 background soil samples (2 surface and 8 subsurface). The selenium results were rejected due to unacceptable matrix spike recoveries and were excluded from background calculations. The rejected background data had no impact on the FH-010 results.

6.2 INVESTIGATION RESULTS

The quality of the data set for soil and groundwater samples collected at FH-010 meets the objectives of the RFI as described in Section 1.2 of this report. All samples were analyzed according to the Final RFI Work Plan (USACE 1995) and approved Work Plan Modifications (approval letter from the TNRCC dated April 21, 1998). Twenty-five soil samples were collected from eleven soil boring and piezometer locations. A total of ten groundwater samples were collected at FH-010. Four of the groundwater samples were collected from the soil boring and piezometer locations and six additional samples were collected from CPT locations for vinyl chloride analysis only. The number and location of the samples were adequate to provide information regarding the presence/absence of contamination; the characterization of the vertical and lateral extent of potential contamination; and the boundaries of the suspected disposal area. A review of the boring logs indicate the landfill is on top of bedrock and visual observations of the site delineate the physical boundary of

the landfill. The geophysical survey was used to identify saturated zones near SB102 and SB107 for CPT sampling of groundwater to determine the presence and extent of potential vinyl chloride contamination within the landfill boundary. The geophysical survey and the resultant three-dimensional model of the saturated zones indicate the groundwater that was collected during the FH-010 RFI was from perched water zones and not from a groundwater aquifer.

Based on the results of visual inspection and soil analyses no releases or contamination have migrated outside of the landfill. Soil and water sample results, including visual inspection of landfill debris, indicate that the FH-010 landfill contains nothing other than typical sanitary landfill material found in landfills closed prior to 1972. The parameters detected in samples collected at FH-010 can come from debris found in municipal solid waste landfills. Although the exact source of these constituents is not known, potential sources are items found in the landfill including aspalt, bricks, plastics, wood and breakdown products of these items.

Results of FH-010 surface and subsurface soil analyses of samples collected inside of the landfill indicated the presence of arsenic, cadmium, lead, and bis(2-ethylhexyl)phthalate at concentrations that exceeded the RRS Number 2 values (Sections 5.1 and 5.2). These constituents were all detected from locations inside of the landfill and posed no risk to human or environmental health. No constituents were detected above the RRS values in samples collected outside of the landfill at PZ103 or near the boundary such as at PZ104 and SB101 locations. This information indicates that there has been no migration of these constituents from the landfill.

Groundwater collected within the landfill was from perched water zones as confirmed by the geophysical survey results rather than from a groundwater aquifer. Within the boundary of the FH-010 landfill, cadmium, lead, and vinyl chloride were detected above screening criteria in water samples. These parameters were not detected in the water samples collected outside of the FH-010 landfill at PZ103 or near the boundary of the landfill at PZ104. This information indicates that there has been no migration of these constituents that could pose a potential risk to humans and the environment from the landfill. No constituents were detected above the RRS values in samples collected outside of the landfill at PZ103, or near the boundary of the landfill at PZ104 and SB101.

Therefore, with respect to these investigation results, FH-010 landfill is determined to have typical sanitary landfill materials with no occurrence of migration of contamination from the landfill. The potential for migration of constituents detected above background and/or screening criteria in soil and groundwater within the FH-010 landfill can be considered low because these constituents were detected at relatively low and infrequent concentrations in soil and groundwater at FH-010. Groundwater was not noted in all of the soil borings in the vicinity, and based upon the geophysical survey and modeling results, the groundwater that was observed is believed to be an isolated perched zone, not a continuous aquifer. The potential for migration of water identified within the boundary of the landfill is quite low due to the predominantly silty clay lithology at FH-010 that inhibits the mobility of any contamination. Additionally, bedrock underlies the landfill and limits potential migration from the landfill. Section 7 discusses conclusions and recommendations for the FH-010 landfill.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The previous sections have discussed the results of the analyses of samples collected inside and outside the FH-010 landfill. In Section 6.2, a discussion of results indicates that contamination has not migrated from the landfill and that the landfill contains typical sanitary landfill materials. Constituents detected above PQLs and RRSs Number 2 within the landfill are typical of the landfill debris common to landfills constructed and used prior to 1972. The concentrations of detected constituents (arsenic, cadmium, lead, bis(2-ethylhexyl)phthalate, and vinyl chloride) pose no current or future threat to human health and the environment, and there has been no evidence identified which indicates constituents found within the boundary of the landfill have migrated outside of the landfill. Therefore, no releases have occurred from the landfill, and the landfill is operating as intended requiring no further action.

The boring logs show the base of the landfill rests on bedrock. Based on the information in this RFI, the water samples collected from inside the landfill are from perched water zones potentially formed by the temporary ponding and subsequent infiltration of precipitation rather than from a groundwater aquifer. Settling of the landfill surface may have occurred in some areas and caused ponding of water on the surface of the landfill. It is recommended that Fort Hood maintain the FH-010 landfill to ensure that the integrity of the unit is not compromised and the conditions do not change at the unit that may cause a threat to human health or the environment. Even though there is no risk outside of the unit or potential for migration from the unit, Fort Hood may plan additional voluntary clean-up action at this site as a preventative measure. The unit is operating as intended, and no mandatory further action is necessary.

8.0 REFERENCES

- BEG 1979. Geologic Atlas of Texas, Waco Sheet (map). University of Texas at Austin/Bureau of Economic Geology.
- 30 TAC 335. Industrial Solid Waste and Municipal Hazardous Waste, Subchapter K. Hazardous Substance Facilities Assessment and Remediation.
- U.S. Army. 1996a. Fort Hood 1996 Public Affairs Document. 72 p.
- U.S. Army. 1996b. Fort Hood Command Information Summary, 2nd Quarter 1996. Public Affairs Office, 21 p. (leaflet).
- USACE. 1995. Final RCRA Facility Investigation Work Plan. 35 Solid Waste Management Units, Fort Hood, Texas. December 1995.
- USACE. 1997. Final RCRA Facility Investigation Chemical Data Acquisition Plan. Fort Hood, Texas. March 1997.
- USDA. 1985a. Soil Survey of Coryell County, Texas. Soil Conservation Service.
- USDA. 1985b. Soil Survey of Bell County, Texas. Soil Conservation Service.
- USEPA. SW-846 Test Methods for Evaluating Solid Waste. Physical/Chemical. Second Edition, Rev. 0, September, 1986, and Third Edition, Rev. 1, November 1990.
- USEPA. 1989. Guidance Document on the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA/530-SW-89-026.

TABLES

FH-010

Table 4.1 FH-010 Sample Identification and Analyses

Station	Sample ID	Matrix	Depth (ft)	Date Collected
PZ101	10SB117	Subsurface Soil	20.0-21.0	05/12/1998
PZ102	10SB118	Subsurface Soil	17.0-18.5	05/13/1998
PZ103	10 PZ 101	Groundwater		06/02/1998
12103	1 0SB 119	Subsurface Soil	20.0-20.5	05/13/1998
PZ104	10 PZ 102	Groundwater		06/02/1998
FZ104	10SB120	Subsurface Soil	15.0-15.5	05/19/1998
	10SB101	Surface Soil	0.0-0.5	12/16/1996
SB101	10SB102	Subsurface Soil	16.5-17.0	12/16/1996
	10SB103	Subsurface Soil	25.5-26.0	12/16/1996
SB102	10SB115	Surface Soil	0.0-1.0	12/18/1996
36102	FHGW101	Groundwater		12/19/1996
	10SB112	Surface Soil	0.0-1.0	12/18/1996
SB103	10SB113	Subsurface Soil	15.5-16.0	12/18/1996
	10SB114	Subsurface Soil	25.0-25.5	12/18/1996
SB104	10SB110	Surface Soil	0.0-1.0	12/18/1996
SB104	10SB111	Subsurface Soil	25.0-25.5	12/18/1996
	10SB107	Surface Soil	0.0-1.0	12/17/1996
SB105	10SB108	Subsurface Soil	16.0-17.0	12/17/1996
	10SB109	Subsurface Soil	27.0-28.0	12/17/1996
	10SB104	Surface Soil	0.0-0.5	12/16/1996
SB106	10SB105	Subsurface Soil	15.5-16.0	12/16/1996
	10SB106	Subsurface Soil	25.0-25.5	12/16/1996
	10 GW 101	Groundwater		10/30/1998
	10SB121	Surface Soil	0.0-2.0	10/30/1998
	10SB122	Subsurface Soil	2.0-4.0	10/30/1998
SB107	10SB123	Subsurface Soil	4.0-6.0	10/30/1998
	10SB124	Subsurface Soil	6.0-8.0	10/30/1998
	10SB125	Subsurface Soil	8.0-12.0	10/30/1998
	10SB126	Subsurface Soil	12.0-14.2	10/30/1998
CPT-101	CPT-101	Groundwater	12.0 17.2	9/14/99
CPT-103	CPT-103	Groundwater		9/14/99
CPT-104	CPT-104	Groundwater		9/14/99
CPT-108	CPT-108	Groundwater		9/15/99
CPT-109	CPT-109	Groundwater		9/15/99
CPT-118	CPT-118	Groundwater		9/15/99

Notes:

- 1. Groundwater was collected when encountered during installation of soil borings.
- 2. All samples were analyzed for VOCs, SVOCs, and metals.

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ101	10SB117	20.0-21.0	Metals	Arsenic	12.1	0.18	mg/kg
				Barium	3.8	0.13	mg/kg
				Chromium	2.8	0.08	mg/kg
				Lead	4.5	0.14	mg/kg
				Selenium	0.26 J	0.23	mg/kg
			Volatile Organics	Acetone	6	5	ug/kg
PZ102	10SB118	17.0-18.5	Metals	Arsenic	6.4	0.19	mg/kg
FZ102	1030110	17.0-10.5	Wictais	Barium	3.3	0.14	mg/kg
				Chromium	1.9	0.08	mg/kg
				Lead	4.6	0.15	mg/kg
				Selenium	0.25 J	0.24	mg/kg
				Scientini	0.23	0.24	6,8
			Volatile Organics	n-Butylbenzene	6	5	ug/kg
PZ103	10SB119	20.0-20.5	Metals	Arsenic	2.7	0.18	mg/kg
				Barium	5.1	0.13	mg/kg
				Chromium	2.8	0.08	mg/kg
				Lead	2.8	0.14	mg/kg
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PZ104	10SB120	15.0-15.5	Metals	Arsenic	4.5	0.19	mg/kg
12107	1000120			Barium	3.9	0.14	mg/kg
				Chromium	2.5	0.08	mg/kg

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ104	10SB120	15.0-15.5	Metals	Lead	3.7	0.15	mg/kg
			Volatile Organics	Acetone	9	5	ug/kg
			Volatile Organies	Methylene Chloride	12	5	ug/kg
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SB101	10SB101	0.0-0.5	Metals	Arsenic	4.9	0.38	mg/kg
				Barium	39.9	0.09	mg/kg
				Cadmium	0.13 B	0.05	mg/kg
				Chromium	6.6	0.09	mg/kg
				Lead	7.2	0.16	mg/kg
	10SB102	16.5-17.0	Metals	Arsenic	7.3	0.43	mg/kg
	1000102			Barium	23.4	0.10	mg/kg
			•	Cadmium	0.06 B	0.05	mg/kg
				Chromium	4.7	0.10	mg/kg
				Lead	6.4	0.18	mg/kg
	10SB103	25.5-26.0	Metals	Arsenic	5.9	0.35	mg/kg
	1030103	23.3-20.0	Moture	Barium	2.3	0.09	mg/kg
				Chromium	1.5	0.09	mg/kg
				Lead	3.5	0.15	mg/kg
			Volatile Organics	Toluene	32	5	ug/kg
SB102	10SB115	0.0-1.0	Metals	Arsenic	4.9	0.39	mg/kg
				Barium	35.9	0.10	mg/kg

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
				O. L. i	0.12 B	0.05	mg/kg
SB102	10SB115	0.0-1.0	Metals	Cadmium	0.12 в 7	0.05	mg/kg
				Chromium	6.9	0.10	mg/kg
				Lead	0.9	0.17	mg/kg
SB103	10SB112	0.0-1.0	Metals	Arsenic	4.3	0.38	mg/kg
JD 103	10001	0.0 1.0	• • • • • • • • • • • • • • • • • • • •	Barium	26.5	0.09	mg/kg
				Cadmium	0.09 B	0.05	mg/kg
				Chromium	6	0.09	mg/kg
				Lead	5.6	0.16	mg/kg
						0.20	
	10SB113	15.5-16.0	Metals	Arsenic	3.7	0.38	mg/kg
				Barium	7.2	0.09	mg/kg
				Chromium	4.8	0.09	mg/kg
				Lead	6.6	0.16	mg/kg
		050055	Monte	Arsenic	4.5	0.35	mg/kg
	10SB114	25.0-25.5	Metals	Barium	1.9	0.09	mg/kg
					1.5	0.09	mg/kg
				Chromium	2.6	0.09	mg/kg
				Lead	2.0	0.15	mg/kg
			Volatile Organics	Acetone	420	27	ug/kg
				Toluene	15	5	ug/kg
				Trichloroethene	11	5	ug/kg
			<u>, , , , , , , , , , , , , , , , , , , </u>				
SB104	10SB110	0.0-1.0	Metals	Arsenic	5.5	0.42	mg/kg
20104	חוומפטו	0.0-1.0		Barium	51.3	0.10	mg/kg

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB104	10SB110	0.0-1.0	Metals	Cadmium	0.58 B	0.05	mg/kg
2B104	1036110	0.0-1.0	Wictais	Chromium	10.2	0.10	mg/kg
				Lead	13.9	0.18	mg/kg
							•
	10SB111	25.0-25.5	Metals	Arsenic	4.6	0.36	mg/kg
	1035111	25.0 25.5	1/10/0/0	Barium	2.3	0.09	mg/kg
				Chromium	2	0.09	mg/kg
				Lead	2.9	0.15	mg/kg
			Volatile Organics	Trichloroethene	8	5	ug/kg
SB105	10SB107	0.0-1.0	Metals	Arsenic Barium Cadmium Chromium Lead	3.4 23.5 0.07 B 6.6 3.5	0.40 0.10 0.05 0.10 0.17	mg/kg mg/kg mg/kg mg/kg mg/kg
			Volatile Organics	Acetone Toluene	140 7	6 6	ug/kg ug/kg
	10SB108	16.0-17.0	Metals	Arsenic	1.9	0.34	mg/kg
	1055100	10.0 17.0	***************************************	Barium	1.8	0.08	mg/kg
				Chromium	1.1	0.08	mg/kg
			v.	Lead	2	0.15	mg/kg
	10SB109	27.0-28.0	Metals	Arsenic	4.2	0.35	mg/kg
	HICKHIN					0.09	

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
		22 0 20 0	NA-A-1-	Chromium	1.4	0.09	mg/kg
SB105	10SB109	27.0-28.0	Metals	Lead	3.1	0.15	mg/kg
			•	Loud			•
			Volatile Organics	Toluene	26	5	ug/kg
ID 104	10SB104	0.0-0.5	Metals	Arsenic	3.9	0.40	mg/kg
B106	1036104	0.0-0.5	Wictais	Barium	55.3	0.10	mg/kg
				Cadmium	0.14 B	0.05	mg/kg
				Chromium	7.1	0.10	mg/kg
				Lead	7.5	0.17	mg/kg
			Volatile Organics	Toluene	10	6	ug/kg
				A	13.3	0.37	mg/kg
	10SB105	15.5-16.0	Metals	Arsenic Barium	7.7	0.09	mg/kg
				Cadmium	0.15 B	0.04	mg/kg
				Chromium	5.6	0.09	mg/kg
				Lead	14.4	0.15	mg/kg
	10SB106	25.0-25.5	Metals	Arsenic	11.4	0.35	mg/kg
	1030100	23.0-23.3	1,14,410	Barium	5.6	0.09	mg/kg
				Cadmium	0.08 B	0.04	mg/kg
				Chromium	3	0.09	mg/kg
			v.	Lead	5.4	0.15	mg/kg
			Volatile Organics	Acetone	17	5	ug/kg

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
an 10 5	1000101	0020	Metals	Arsenic	5.4	0.20	mg/kg
SB107	10SB121	0.0-2.0	Metais	Barium	30.2	0.15	mg/kg
				Cadmium	0.1 B	0.03	mg/kg
				Chromium	6.8	0.09	mg/kg
				Lead	7.9	0.16	mg/kg
				Mercury	0.05	0.04	mg/kg
	10SB122	2.0-4.0	Metals	Arsenic	4.8	0.20	mg/kg
	1000122	2.0 1.0		Barium	20.2	0.14	mg/kg
				Cadmium	0.1 B	0.03	mg/kg
				Chromium	4.0	0.09	mg/kg
				Lead	2.3	0.15	mg/kg
							a
	10SB123	4.0-6.0	Metals	Arsenic	3.8	0.21	mg/kg
				Barium	37.0	0.15	mg/kg
				Cadmium	0.09 B	0.04	mg/kg
				Chromium	4.9	0.09	mg/kg
				Lead	3.6	0.16	mg/kg
	1000124	6080	Matala	Arsenic	3.7	0.20	mg/kg
	10SB124	6.0-8.0	Metals	Barium	53.3	0.14	mg/kg
				Cadmium	0.08 B	0.03	mg/kg
				Chromium	5.6	0.09	mg/kg
			v*	Lead	5.5	0.15	mg/kg
				LCau	3.3	0	
	10SB125	8.0-12.0	Metals	Arsenic	3.1	0.22	mg/kg
	. 5045	3.00		Barium	33.8	0.16	mg/kg

Table 4.2 FH-010 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Resu	lt	PQL	Units
CD 107	10SB125	8.0-12.0	Metals	Chromium	5.6		0.10	mg/kg
SB107	1036123	0.0-12.0	Wictars	Lead	5.8		0.17	mg/kg
					7.5		0.22	mg/kg
	10SB126	12.0-14.2	Metals	Arsenic	7.3 50.0		0.22	mg/kg
				Barium	2.2		0.16	mg/kg
				Cadmium	11.5		0.04	mg/kg
				Chromium			0.10	mg/kg
				Lead	99.7		0.17	mg/kg
				Mercury	0.07		0.04	mg/kg
			Semi-Volatile Organics	1,4-Dichlorobenzene	880		390	ug/kg
			20	2-Methylnaphthalene	590		390	ug/kg
				Bis(2-ethylhexyl)phthalate	2600		390	ug/kg
				Di-n-butyl Phthalate	940		390	ug/kg
				N-Nitrosodiphenylamine	1000		390	ug/kg
				Naphthalene	2400		390	ug/kg
				Phenanthrene	680		390	ug/kg
			Volatile Organics	Chlorobenzene	180		6	ug/kg
			, oranio or Parison	Isopropyl Benzene	86		6	ug/kg
				n-Butylbenzene	1400	D	780	ug/kg
				n-propylbenzene	210		6	ug/kg
				sec-Butylbenzene	1100	D	780	ug/kg
				tert-Butylbenzene	17		6	ug/kg

J - Indicates estimated value

B (Inorganics) - Value was less then the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

D - Diluted sample analysis

Table 4.3 FH-010 Analytes Detected in Groundwater Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
CPT101	10CPT101		Volatile Organics	Vinyl Chloride	19	1	ug/l
							de the desired desired as a second se
CPT104	10CPT104		Volatile Organics	Vinyl Chloride	1.3	1	ug/l
CDT110	10CDT110		W. L. W. O.	1" 10"1 11			
CPT118	10CPT118		Volatile Organics	Vinyl Chloride	4.4	1	ug/l
PZ103	10PZ101		Metals	Barium	148	0.6	ug/l
				Chromium	5.7	0.7	ug/l
			Volatile Organics	Chlorobenzene	6	5	ug/l
				ARCHANICA CONTRACTOR C			
				e e			
PZ104	10PZ102		Metals	Barium	76.9	0.6	ug/l
				Lead	1.6	1.5	ug/l
10.910				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·		
SB102	FHGW101	, 	Metals	Arsenic	21.5	2.5	ug/l
				Barium	254	0.3	ug/l
			Semi-Volatile Organics	1,4-Dichlorobenzene	27	10	ug/l
			-	N-Nitrosodiphenylamine	15	10	ug/l
				Naphthalene	50	10	ug/l

Table 4.3 FH-010 Analytes Detected in Groundwater Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB102	FHGW101		Volatile Organics	1,2,4-trimethylbenzene	49	5	ug/l
			•	1,3,5-trimethylbenzene	7	5	ug/l
				1,4-Dichlorobenzene	39	5	ug/l
				Chlorobenzene	79	5	ug/l
				Ethylbenzene	32	5	ug/l
				Isopropyl Benzene	6	5	ug/l
				m,p-Xylene	75	5	ug/l
				n-propylbenzene	9	5	ug/l
				Naphthalene	78	5	ug/l
				o-Xylene	13	5	ug/l
				Vinyl Chloride	20	5	ug/l
			****		MARKET PROPERTY OF THE PARTY OF		
SB107	10GW101		Metals	Arsenic	23.4	2.9	ug/l
				Barium	506	0.6	ug/l
				Cadmium	7.6	0.3	ug/l
				Chromium	39.2	0.7	ug/l
				Lead	248 N*	1.5	ug/l
				Mercury	0.47 N	0.1	ug/l
			Volatile Organics	1,4-Dichlorobenzene	25	5	ug/l
				Chlorobenzene	84	5	ug/l
				n-propylbenzene	7	5	ug/l
				Naphthalene	59	5	ug/l
				Vinyl Chloride	26	5	ug/l

N - Indicates estimated value

^{* -} Duplicate analysis not within control limits.

Table 4.4
Statistical Analysis of 95% UTL Concentrations Background Soils

Analyte (units)	Mean	95% UTL	Maximum Detect	Results > PQL	Distribution
Arsenic (mg/kg)	4.3500	9.19	11.6	43/43	N
Barium (mg/kg)	30.19	157.3	155.0	43/43	L
Cadmium (mg/kg)	0.15	0.67	0.79	36/44	L
Chromium (mg/kg)	7.32	24.88	23.6	44/44	L
Lead (mg/kg)	5.77	19.0	33.20	44/44	L
Mercury (mg/kg)	0.0400	0.04*	0.04	1/44	D
Selenium (mg/kg)	0.345	0.44*	0.44	2/40	D
Silver (mg/kg)	0.218	**	ND	0/44	D

Results less than the detection limit were set to ½ the reported detection limit.

- L distribution most similar to lognormal.
- N distribution most similar to normal.
- D distribution not determined because fewer than five detects or less than 50% detects.
- * UTL -maximum detected
- ** the 95% UTL could not be calculated due to no detects in the background data set, therefore, the PQL will be used as the background comparison value. The PQL for silver in background samples ranges from 0.2 ppm to 0.25 ppm.
- ND Not Detected

Table 5.1 FH-010 Soil Analytes Above Screening Criteria

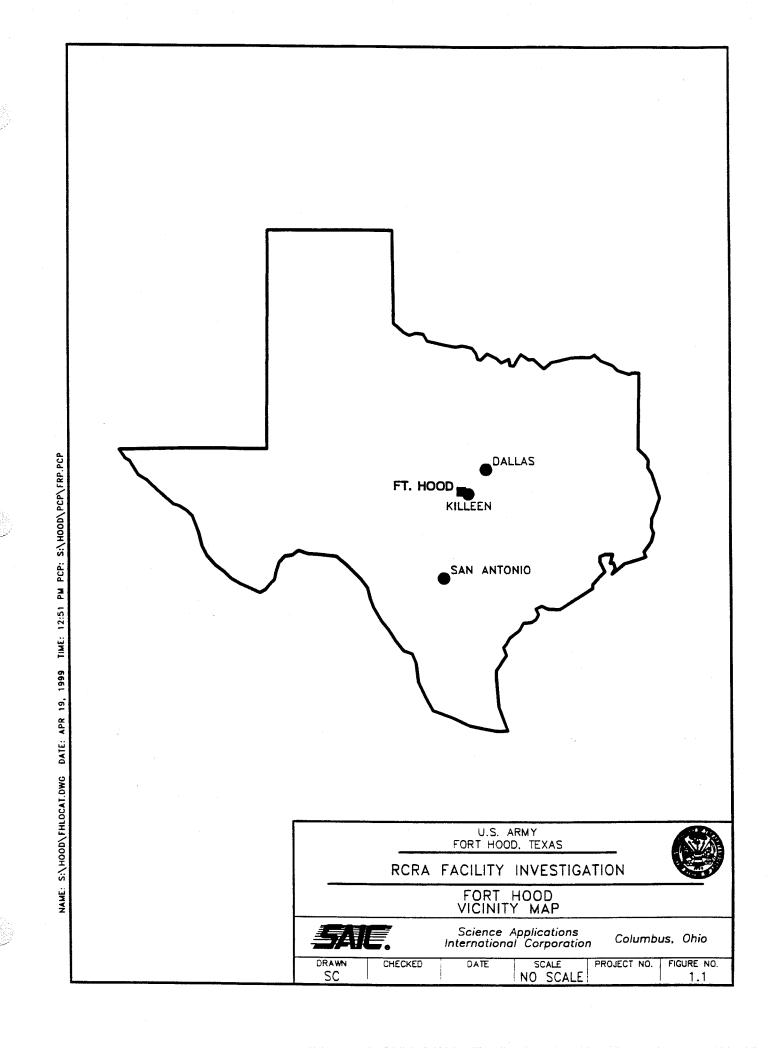
Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria S	Screening Concentration	Units
PZ101	10SB117	20.0-21.0	Arsenic	12.1	mg/kg	Soil Background	9.2	mg/kg
SB106	10SB105	15.5-16.0	Arsenic	13.3	mg/kg	Soil Background	9.2	mg/kg
	10SB106	25.0-25.5	Arsenic	11.4	mg/kg	Soil Background	9.2	mg/kg
SB107	10SB126	12.0-14.2	Bis(2-ethylhexyl)phthalate	2.6	mg/kg	30 TAC 335 Industrial Soil G		mg/kg
			Cadmium Lead	2.2 99.7	mg/kg mg/kg	Soil Background Soil Background	0.67 19	mg/kg mg/kg

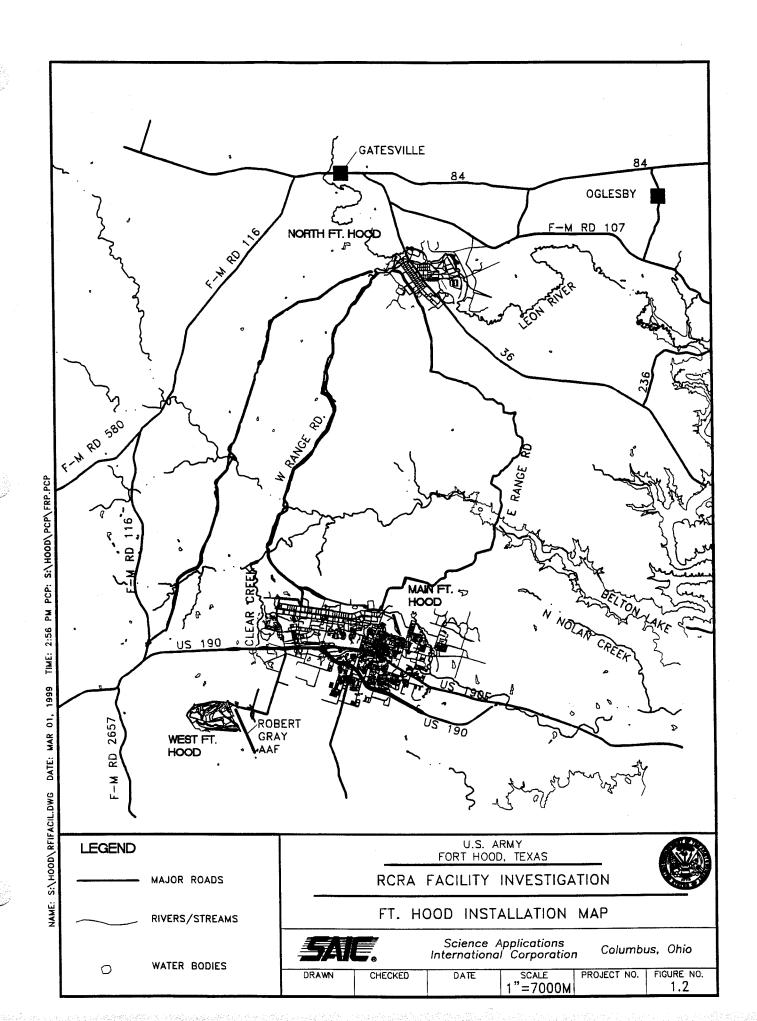
Table 5.2 FH-010 Groundwater Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
		,						
CPT101	10CPT101		Vinyl Chloride	0.019	mg/l	30 TAC 335 Groundwater	0.002	mg/l
CPT118	10CPT118		Vinyl Chloride	0.0044	mg/l	30 TAC 335 Groundwater	0.002	mg/l
SB102	FHGW101		Vinyl Chloride	0.02	mg/l	30 TAC 335 Groundwater	0.002	mg/l
SB107	10GW101		Cadmium	0.0076	mg/l	30 TAC 335 Groundwater	0.005	mg/l
3010/	10G W 101		Lead	0.248 N*	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Vinyl Chloride	0.026	mg/l	30 TAC 335 Groundwater	0.002	mg/l

N - Indicates estimated value
* - Duplicate analysis not within control limits.

FH-010







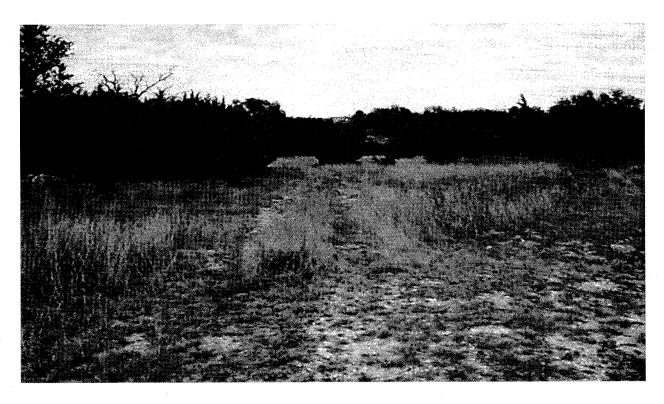
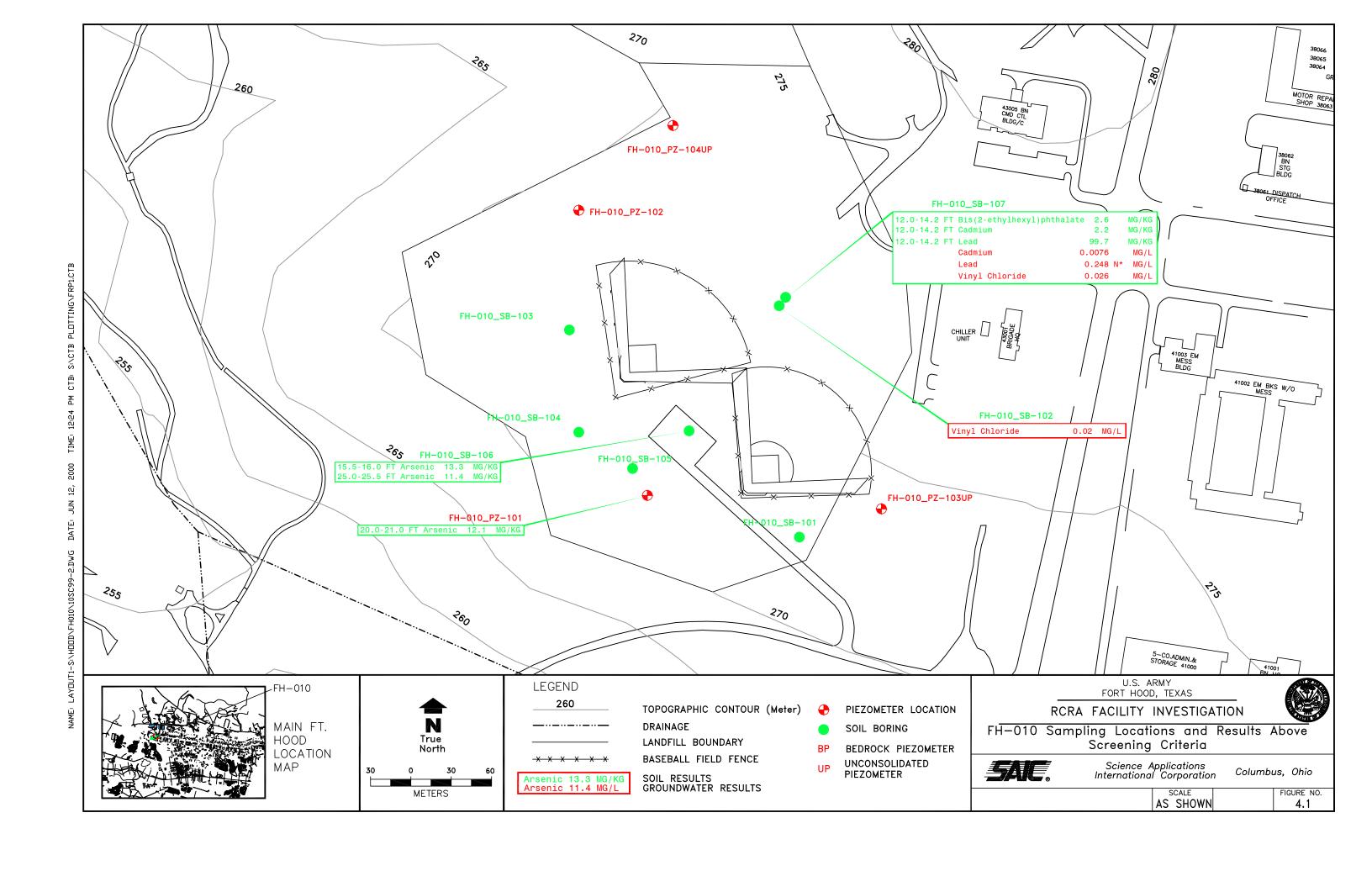
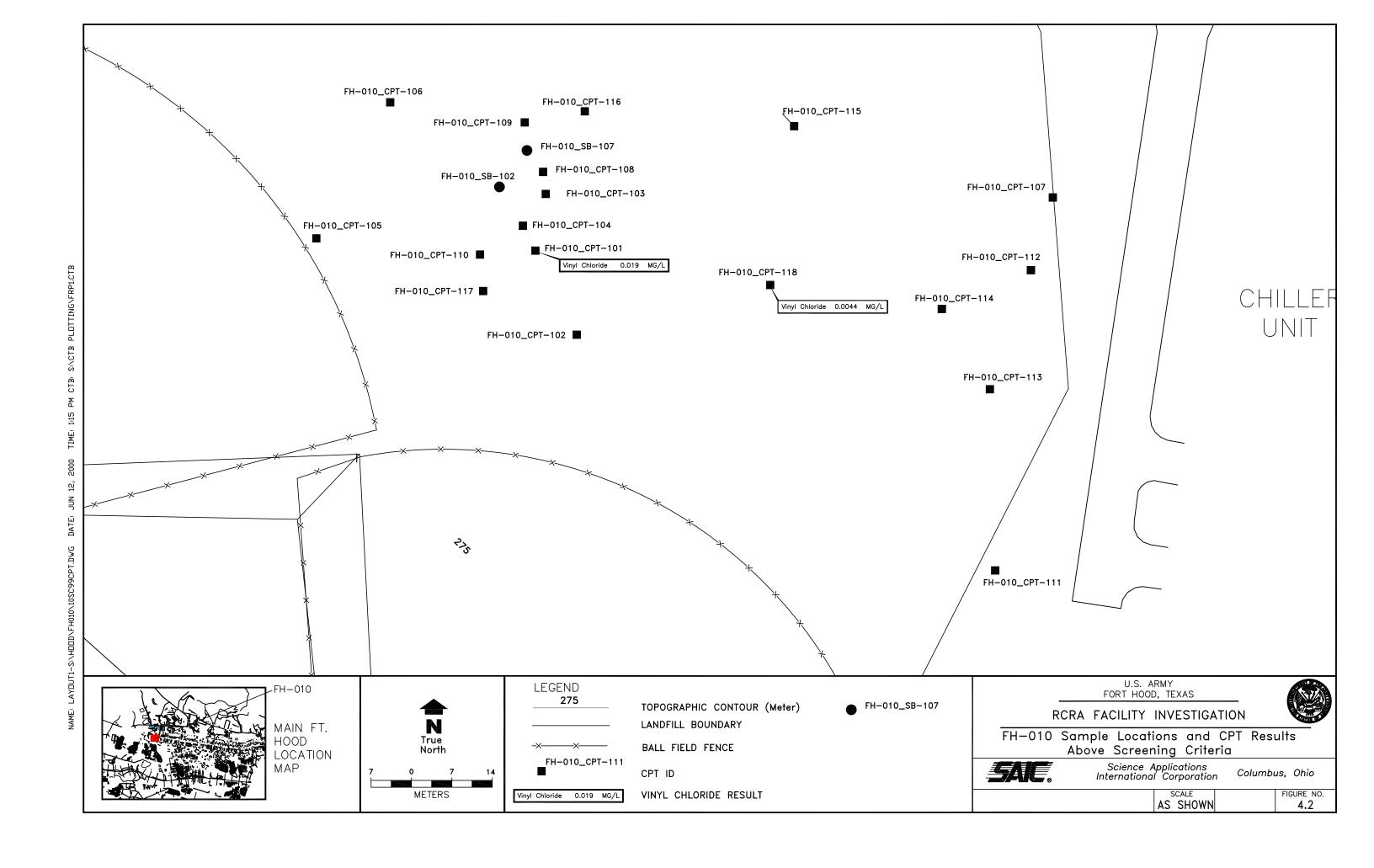
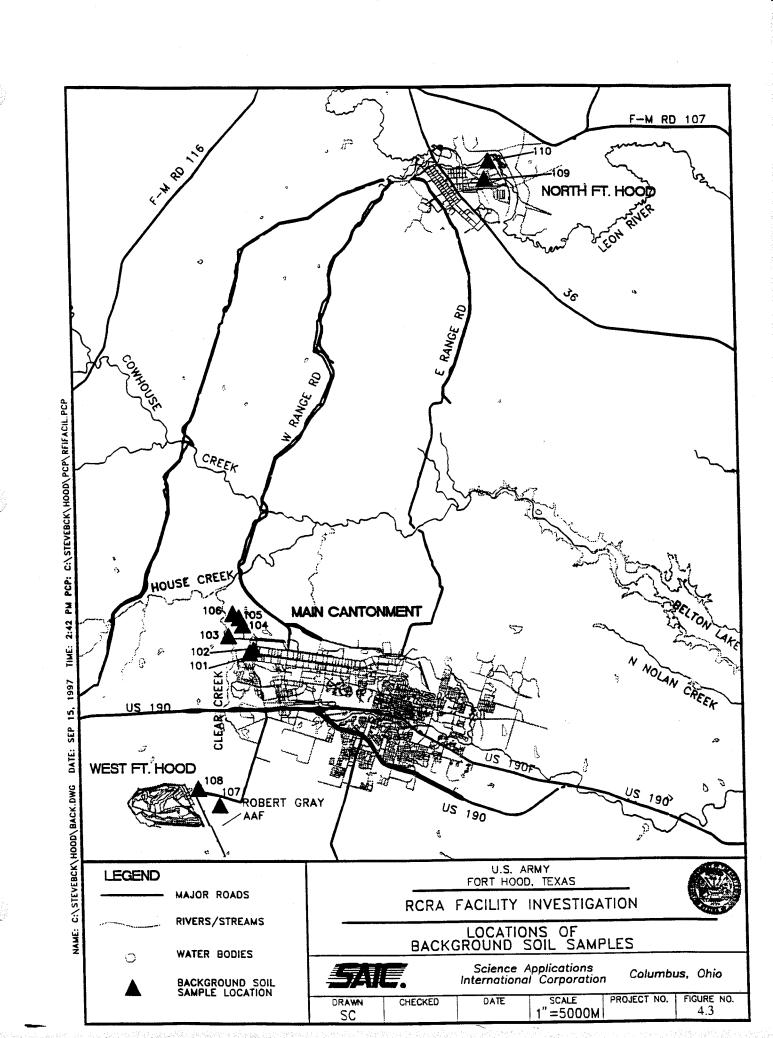


Figure 3.1 Photographs of FH-010







APPENDIX A

FH-010 Soil Boring Logs



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10-21-1999

RCRA Facilities Investigation Fort Hood, Texas

Ft. Worth District

Ft. Worth, Texas

Boring FH010-SB101

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: Abandoned Landfill 10

SWMU FH010

Start Date : 12/16/96 End Date : 12/16/96 : 3446187.26 m

Northing Coord.

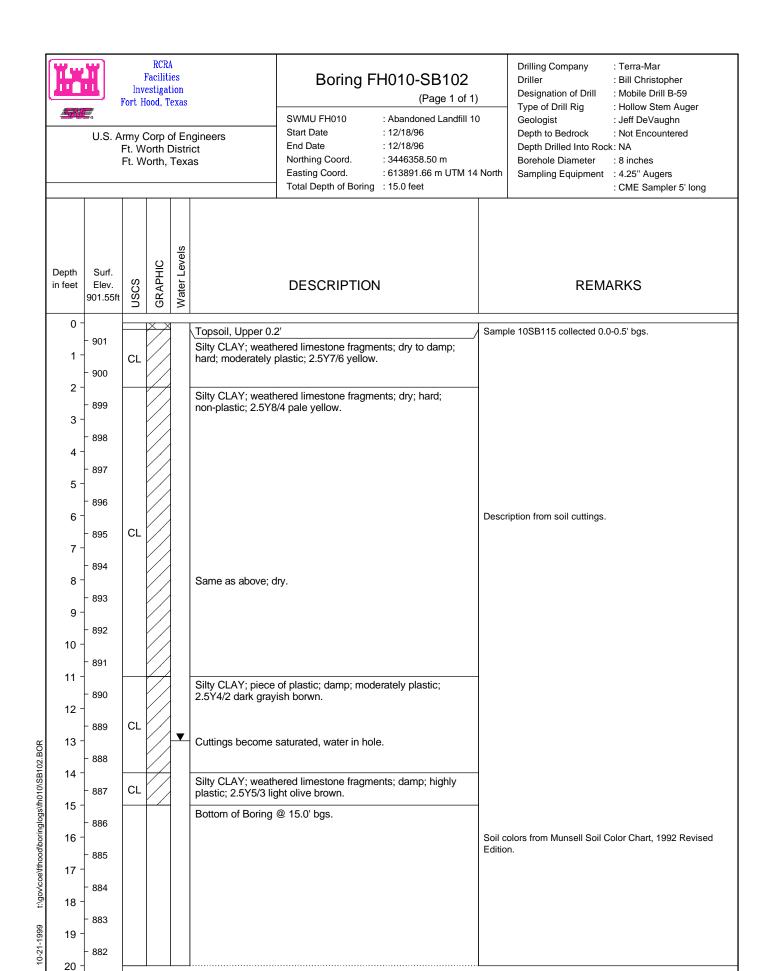
Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 25.0 feet Depth Drilled Into Rock: 1.0 feet Borehole Diameter : 8 inches

		Easting Coord. : 613906.52 m UT Total Depth of Boring : 26.0 feet					North	Sampling Equipment	: 4.25" Augers : CME Sampler 5' long
Depth Surf. in feet Elev. 894.67	SS	GRAPHIC	Water Levels		DESCRIPTION	I		REMA	RKS
0 - 1 - 894 2 - 893 3 - 892 4 - 891	CL			Silty CLAY; weath non-plastic; 2.5Y7	ered limestone fragme /4 pale yellow.	ents; dry; hard;	Sampl	le 10SB101 collected 0.0-	0.5' bgs.
5 - 890 6 - 889 7 - 888 8 - 887 8 - 886	FL				ith pieces of wood, dry lamp; soft; 5Y4/2 olive		Descri	iption from soil cuttings.	
9 - 885 10 - 884 11 - 883 12 - 882	FL			Same as above w	ith wood fragments; da	amp.			
14 - 881 15 - 880 16 - 879 17 - 878 17 - 877 18 - 876	CL CL			Same as above. V drilling. Silty CLAY; dampyellowish brown a	Veathered limestone for s soft; moderately plas and 2.5Y5/2 grayish brown ered limestone fragme	ragments. Hard tic; 10YR5/8 wwn mottling.	Sampl	le 10SB102 collected 16.	5-17.0' bgs.
20 - 875 21 - 874 22 - 873 23 - 872 24 - 871	CL			Same as above; d	ry.				
25 - 870 26 - 869 27 - 868	LS			Blue-gray weather	<u> </u>		Sampl	le 10SB103 collected 25.	5-26.0' bgs.
28 - 867 29 - 866							Soil co	olors from Munsell Soil Co n.	olor Chart, 1992 Revised





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10-21-1999

RCRA Facilities Investigation Fort Hood, Texas

U.S. Army Corp of Engineers Ft. Worth District Ft. Worth, Texas

Boring FH010-SB103

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: Abandoned Landfill 10

SWMU FH010

Start Date : 12/18/96 End Date : 12/18/96

Northing Coord. : 3446341.14 m : 613735.67 m UTM 14 North Easting Coord.

Drilling Company : Terra-Mar

Driller : Bill Christopher

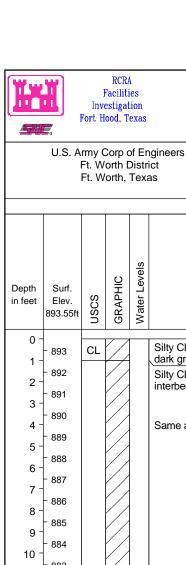
Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist

Depth to Bedrock : 23.0 feet Depth Drilled Into Rock: 2.5 feet Borehole Diameter : 8 inches

Sampling Equipment : 4.25" Augers

					Total Depth of Boring : 25.5 feet	: CME Sampler 5' long
Depth n feet	Surf. Elev. 896.67ft	nscs	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0 -			XX		Topsoil, Upper 0.3'	Sample 10SB112 collected 0.0-0.5' bgs.
1 -	- 896				Silty CLAY: weathered limestone fragments: interbeds of	
2 -	- 895				weathered limestone; dry; hard; non-plastic; 2.5Y8/4 pale yellow mottled with 10YR6/8 brownish yellow.	
3 -	- 894				Same as above; dry.	
	- 893				Carrie as above, try.	
4 -	- 892					
5 -	- 891					
6 -						Description from soil cuttings.
7 -	- 890				Same as above; dry.	
8 -	- 889					
9 -	- 888					
10 -	- 887					
11 -	- 886					
12 -	- 885	CL			Same as above; dry.	
13 -	- 884					
	- 883					
14 -	- 882					
15 -	- 881				Same as above; dry.	Sample 10SB113 collected 15.5-16.0' bgs.
16 -	- 880					
17 -						
18 -	- 879					
19 -	- 878					
20 -	- 877					
21 -	- 876				Same as above; dry.	
22 -	- 875					
23 -	- 874		/			
24 -	- 873		++		LIMESTONE; weathered; dry; blue-gray.	
25 -	- 872	LS				Sample 10SB114 collected 25.0-25.5' bgs.
	- 871		<u>'T'-'T</u>		Bottom of Boring @ 25.5' bgs.	Gample 1000114 collected 20.0-20.0 bys.
26 -	- 870					
27 -	- 869					
28 -	- 868					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
29 -						
30 -	- 867				<u> </u>	



Ft. Worth District

SWMU FH010

: Abandoned Landfill 10

Boring FH010-SB104

(Page 1 of 1)

Start Date : 12/16/96 End Date : 12/18/96 Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist : 25.0 feet Depth to Bedrock

Depth Drilled Into Rock: 0.5 feet

Ft. Worth, Texas					as	Northing Coord. Easting Coord. Total Depth of Boring	: 3446264.96 m : 613742.95 m UTM 14 : 25.5 feet	North	Borehole Diameter Sampling Equipment	: 8 inches : 4.25" Augers : CME Sampler 5' long
in feet E	Surf. Elev. 93.55ft	nscs	GRAPHIC	Water Levels		DESCRIPTION			REM <i>A</i>	ARKS
1 - 8 2 - 8 3 - 8 4 - 8	893 892 891 890 889	CL			dark gray. Silty CLAY; weath	; soft; moderately plast ered tan limestone fraç rd; non-plastic; 10YR7/	ments and	Sampl	e 10SB110 collected 0.0	0-0.5' bgs.
6 - 8 7 - 8 8 - 8 9 - 8 10 - 8 11 - 8 12 - 8 13 - 8	888 887 886 885 884 883 882 881	CL			Same as above; d	lry.		Descri	ption from soil cuttings.	
15 - 8 16 - 8 17 - 8 18 - 8 19 - 8 20 - 8 21 - 8 22 - 8	879 878 877 876 875 874 873 872							No sar	nple collected at 15.0' by	gs due to rock layers (2
24 - 25 - 26 - 27 -	868 867	LS			Same as above; d LIMESTONE; wea	athered; dry; blue-gray.		Sampl	e 10SB111 collected 25.	0-25.5' bgs.
28 - - 8 29 -	866 865 864							Soil co Edition		olor Chart, 1992 Revised



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10-21-1999

RCRA Facilities Investigation Fort Hood, Texas

U.S. Army Corp of Engineers Ft. Worth District Ft. Worth, Texas

Boring FH010-SB105

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SWMU FH010 Start Date

End Date

: 12/17/96 : 12/17/96

Northing Coord. Easting Coord.

: 3446237.87 m : 613783.00 m UTM 14 North

: Abandoned Landfill 10

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn

Geologist Depth to Bedrock : 26.0 feet Depth Drilled Into Rock: 2.0 feet Borehole Diameter : 8 inches

Sampling Equipment : 4.25" Augers

					Total Depth of Boring : 28.0 feet	: CME Sampler 5' long
Depth n feet	Surf. Elev. 893.89ft	SOSN	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0 -			XX		Topsoil upper 0.3'.	Sample 10SB107 collected 0.0-0.5' bgs.
1 - 2 -	- 892	CL			Silty CLAY; weathered limestone fragments; wood debris; damp; moderately plastic; 2.5Y5/6 light olive brown. Same as above with a saturated zone from 1-2' bgs and	
3 - 4 -	- 891 - 890				dry below 2'. Silty CLAY; weathered limestone interbeds; dry.	_
5 - 6 -	- 889 - 888					Description from soil cuttings.
7 - 8 -	- 887 - 886					
9 - 10 -						
11 - 12 -	- 883 - 882				Same as above; dry.	
13 - 14 -	- 881 - 880	0.				
15 - 16 -		CL			Same as above; dry.	Sample 10SB108 collected 16.0-17.0' bgs.
17 ⁻ 18 ⁻	- 876					
	- 874				Same as above; dry.	
22 -	- 873 - 872 - 871					
23 -	- 871 - 870 - 869				Same as above; dry.	
25 - 26 -	- 869 - 868 - 867				LIMESTONE; weathered; dry; blue-gray.	Occupie 400D400 cellected 07 0 00 011
27 - 28 -	- 866	LS				Sample 10SB109 collected 27.0-28.0' bgs.
29 -	- 865				Bottom of Boring @ 28.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised



t:\gov\coe\fthood\boringlogs\fh010\SB106.BOR

10-21-1999

RCRA Facilities Investigation Fort Hood, Texas

Ft. Worth District

Ft. Worth, Texas

Boring FH010-SB106

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: Abandoned Landfill 10

SWMU FH010

Start Date : 12/16/96 End Date : 12/16/96

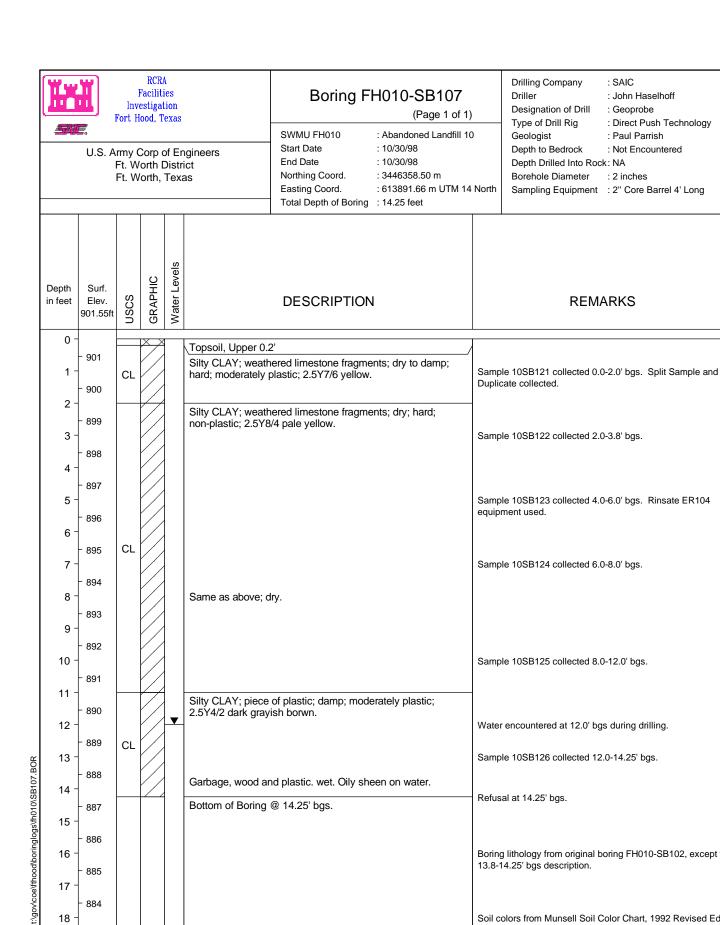
Northing Coord. : 3446266.21 m Easting Coord. : 613824.97 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist

Depth to Bedrock : 25.0 feet Depth Drilled Into Rock: 0.5 feet **Borehole Diameter** Sampling Equipment : 4.25" Augers

Depart Surf. Sur							g Coord. Depth of Boring	: 613824.97 m UT : 25.5 feet	TM 14 North	Sampling Equipment	: 4.25" Augers : CME Sampler 5' long
1 - 897 2 - 896 3 - 895 4 - 894 5 - 893 6 - 892 7 - 891 8 - 889 10 - 888 11 - 887 12 - 886 13 - 885 14 - 884 15 - 883 16 - 882 17 - 881 18 - 880 19 - 879 20 - 878 21 - 877 22 - 876 23 - 875 24 - 874 25 - 873 26 - 872 27 - 871 28 - 870 20 - 878 21 - 877 28 - 870 29 - 879 20 - 878 21 - 877 22 - 876 23 - 875 24 - 874 25 - 873 26 - 872 27 - 871 28 - 870 29 - 878 20 - 878 21 - 877 22 - 876 23 - 875 24 - 874 25 - 873 26 - 872 27 - 871 28 - 870 29 - 878 20 - 878 21 - 877 22 - 876 23 - 875 24 - 877 25 - 873 26 - 872 27 - 871 28 - 870 29 - 878 20 - 878 20 - 878 21 - 877 22 - 876 23 - 875 24 - 877 25 - 873 26 - 872 27 - 871 28 - 870 29 - 878 20 - 878 20 - 878 21 - 877 22 - 876 23 - 875 24 - 877 25 - 873 26 - 872 27 - 871 28 - 870 29 - 878 20 - 878 20 - 878 21 - 877 22 - 876 23 - 875 24 - 877 25 - 873 26 - 872 27 - 871	n feet	Elev.	nscs	GRAPHIC	Water Levels	DES	SCRIPTION			REM <i>A</i>	ARKS
Sithy CLAY; weathered limeston fragments; dry; hard; non-plastic; 2.5Y8/2 pale yellow.	0 -	- 898		XX		Topsoil upper 0.3'			Samp	le 10SB104 collected 0.0	0-0.5' bgs.
Sity CLAY; weathered tan limestone interbeds; dry. Sity CLAY; weathered tan limestone interbeds; dry. Trace small pieces of plastic (visqueen) in cuttings. Description from soil cuttings.	2 -	- 896	CL			Silty CLAY; weathered lim	eston fragment rellow.	ts; dry; hard;			
Trace small pieces of plastic (visqueen) in cuttings. Description from soil cuttings.						Silty CLAY; weathered tan	limestone inte	rbeds; dry.			
Same as above; no plastic. Same as above; no plastic. Same as above; dry. Same as above; more clay; moderately plastic; dry; firm. Same as above; more silty; dry. Same as above; more silty; dry. Sample 10SB105 collected 15.5-16.0' bgs. Same as above; dry; limestone interbeds. Same as above; dry; limestone interbeds. Same as above; dry; limestone. Sample 10SB105 collected 15.5-16.0' bgs. Same as above; dry; limestone. LIMESTONE; weathered; dry; blue-gray. Bottom of Boring @ 25.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revise	7 -	- 892 - 891				Trace small pieces of plas	stic (visqueen) i	in cuttings.	Descr	iption from soil cuttings.	
Same as above; dry. Same as above; dry.	9 -	- 889				Same as above; no plastic	. .				
Same as above; more clay; moderately plastic; dry; firm. Same as above; more silty; dry.	11 -	- 887				Same as above; dry.					
Same as above; more silty; dry. Sample 10SB105 collected 15.5-16.0' bgs. Sample 10SB105 collected 25.0-25.5' bgs. Sample 10SB106 collected 25.0-25.5' bgs. LIMESTONE; weathered; dry; blue-gray. Bottom of Boring @ 25.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revision and the sample 10SB106 collected 25.0-25.5' bgs.	13 -	- 885				Same as above; more clay	y; moderately p	lastic; dry; firm.			
Same as above; dry; limestone interbeds. 18	15 -	- 883	CL			Same as above; more silty	v; dry.		Samp	le 10SB105 collected 15.	.5-16.0' bgs.
21 - 877 22 - 876 23 - 875 24 - 874 25 - 873 26 - 872 27 - 871 28 - 870 Same as above; dry. Same as above; interbeds of tan limestone. Same as above; interbeds of tan limestone. Sample 10SB106 collected 25.0-25.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revision and the same as above; and the same as above; dry. Same as above; or the same as above; dry.	18 -	- 880				Same as above; dry; limes	stone interbeds.				
Same as above; interbeds of tan limestone. Same as above; interbeds of tan limestone. LIMESTONE; weathered; dry; blue-gray. Bottom of Boring @ 25.5' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revise.	21 -	- 877				Same as above; dry.					
25 - 873 LS LIMESTONE; weathered; dry; blue-gray. 26 - 872 Bottom of Boring @ 25.5' bgs. 27 - 871 Soil colors from Munsell Soil Color Chart, 1992 Revise.	23 -	- 875				Same as above; interbeds	of tan limestor	ne.			
27 - 871 28 - 870 Soil colors from Munsell Soil Color Chart, 1992 Revis		- 873	LS						Samp	le 10SB106 collected 25.	.0-25.5' bgs.
28 - 870 Soil colors from Munsell Soil Color Chart, 1992 Revis						Bottom of Boring @ 25.5'	bgs.				
									Soil co		olor Chart, 1992 Revised
29 - ₈₆₉ Bedition.		- 869							Edido	II.	



Bottom of Boring @ 14.25' bgs.

0-21-1999

Refusal at 14.25' bgs.

13.8-14.25' bgs description.

Boring lithology from original boring FH010-SB102, except for

Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



Ft. Worth District

Ft. Worth, Texas

U.S. Army Corp of Engineers

Boring FH010-PZ101

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: Abandoned Landfill 10

SWMU FH010

Start Date : 5/12/98 End Date : 5/18/98 Northing Coord. : 3446218.40 m

Easting Coord. : 613794.44 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 27.0 feet Depth Drilled Into Rock: 18.0 feet Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

				Total Depth of Boring : 45.0 feet	1	: CME Sampler 5' long
Depth Surf. in feet Elev. 894.47ft	nscs	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	Well1: PZ101 Elev.: 895.97 TOC No Protective Casing Installed
0 - 894 1 - 893 2 - 892 3 - 891 4 - 890 5 - 889 6 - 888 7 - 887 8 - 886 9 - 885 10 - 884 11 - 883 12 - 882	CL			Silty CLAY; limestone fragments/cobbles; dry; 10YR4/2 dark grayish brown. Same as above except 10YR7/6 yellow; dry. No Recovery. No Recovery (appears to be a rock in augers).	Apparent wet zone around 7.0' bgs (cuttings).	Cement/Bentonite
13 - 881 14 - 880 15 - 879 16 - 878 17 - 877 18 - 876 19 - 875 20 - 874 21 - 873 22 - 872 23 - 871 24 - 870 25 - 869 26 - 868 27 - 867	CL			Silty CLAY; interbedded with crystalline, fossiliferious limestone; mostly dry to damp; 10YR7/6 yellow. No Recovery. (Same as above described from soil cuttings). Same as above; dry. Same as above; dry. No Recovery. Same as above; dry. LIMESTONE; dry; gray.	Sample 10SB117 collected 20.0-21.0' bgs.	Top of Seal @ 25.1' bgs Seal - Medium
28 - 866 29 - 865 30 - 864 31 - 863 32 - 862 33 - 861 34 - 860 35 - 859 36 - 858 37 - 857 38 - 856 39 - 855 40 - 854 41 - 853 42 - 852 43 - 851 44 - 850 45 - 849	LS SH			Total Depth augering 28.5' bgs, begin coring @ 30' bgs. LIMESTONE, N5 medium gray, some zones of N7 light gray; thin zones of clay in fractures (N3 dark gray); clay zones damp; limestone has trace fossils and weathered zones are <1cm thick. Good core recovery (100%) Same as above; dry. SHALE; very weathered; trace fossils; damp; N3 dark gray. Mostly LIMESTONE as above; evidence of some shale but none recovered (may be too soft). No Recovery. Bottom of Boring @ 45.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 revised edition. Rock colors from Munsell Rock Color Chart.	Bentonite Chips Top of Filter Pack @ 29.9' bgs Top of Screen @ 33.98' bgs Filter Pack (1020 Silica Sand) Screen 2" Dia PVC Sch 40, 10 Slot Bottom of Screen @ 43.45' bgs



U.S. Army Corp of Engineers Ft. Worth District Ft. Worth, Texas

Boring FH010-PZ102

(Page 1 of 1)

SWMU FH010 : Abandoned Landfill 10

 Start Date
 : 5/13/98

 End Date
 : 5/19/98

 Northing Coord.
 : 3446430.17 m

Easting Coord. : 613742.46 m UTM 14 North

Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn

Geologist : Jeff DeVaughr
Depth to Bedrock : 18.5 feet
Depth Drilled Into Rock: 3.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers

					Easting Coord. : 613742.46 m UTM Total Depth of Boring : 21.0 feet		Sampling Equipn		E Sampler 5' long
	Surf. Elev. 890.83ft	nscs	GRAPHIC	Water Levels	DESCRIPTION	RE	EMARKS	Well1: Elev.: 8	
0 - 1 - 2 -	- 890 - 889				Silty CLAY; limestone fragment; dry to damp; moderately plastic when damp; 2.5Y7/6 yellow.				Cement/Bentonite Grout Top of Seal @ 2.0' bgs
3 - 4 -	- 888 - 887				No Recovery.				Seal - Medium Bentonite Chips
5 -	- 886 - 885				Silty CLAY interbedded with limestone, overall dry.				Top of Filter Pac @ 5.0' bgs
6 - 7 -	- 884				No Recovery.				Casing 2" Dia PVC Sch
8 - 9 -	- 883 - 882	CL							Top of Screen @ 8.44' bgs
10 - 11 -	- 881 - 880				Same as above; dry.				Filter Pack
12 - 13 -	- 879 - 878				No Recovery, rock in spoon (core barrel).				(1020 Silica San Screen 2" Dia P
14 - 15 -	- 877 - 876								Sch 40, 10 Slot
16 - 17 -	- 875 - 874				Same as above; dry to damp.	Sample	10SB118 and Split		
18 -	- 873 - 872	LS			LIMESTONE; weathered; dry; tan. LIMESTONE; dry; blue-gray.	and Dup 17.0-18.	olicate collected .5' bgs.		Bottom of Screet @ 17.95' bgs
19 - 20 -	- 871	LS			same as above dry.	install pi	boring needed to iezometer because		
21 - 22 -	- 870 - 869				Bottom of Boring @ 21.0' bgs.	first bori	as encountered in ng. See first og FH010-PZ102A.		
23 - 24 -	- 868 - 867						ors from Munsell or Chart, 1992 edition.		
25 -	- 866								



U.S. Army Corp of Engineers Ft. Worth District Ft. Worth, Texas

Boring FH010-PZ102A

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SWMU FH010 : Abandoned Landfill 10

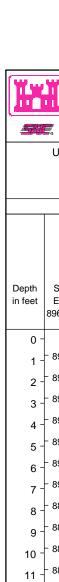
Start Date : 5/13/98 End Date : 5/13/98 Northing Coord. : Not Easting Coord. : Surveyed Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : Not Encountered

Depth Drilled Into Rock: NA **Borehole Diameter** : 8 inches Sampling Equipment : 4.25" Augers

		Total Depth of Boring : 8.0 feet	: CME Sampling Equipment : 4.25" Augers
Depth in feet SO SO BHICO	Water Levels	DESCRIPTION	REMARKS
0		Silty CLAY; limestone fragments; dry; non-plastic; 10YR6/6 brownish yellow. damp below 3' No Recovery Same as above; moist. Black paper, glass, wood, wet. Same Silty CLAY as above, wet. No recovery Bottom of Boring @ 8.0' bgs.	Will move to new location due to trash, this hole will be abandoned. Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
30			



U.S. Army Corp of Engineers Ft. Worth District Ft. Worth, Texas

Boring FH010-PZ103

(Page 1 of 1)

: Abandoned Landfill 10

SWMU FH010

Start Date : 5/13/98 End Date : 5/18/98

Northing Coord. : 3446207.67 m Easting Coord. : 613968.07 m UTM 14 North Drilling Company

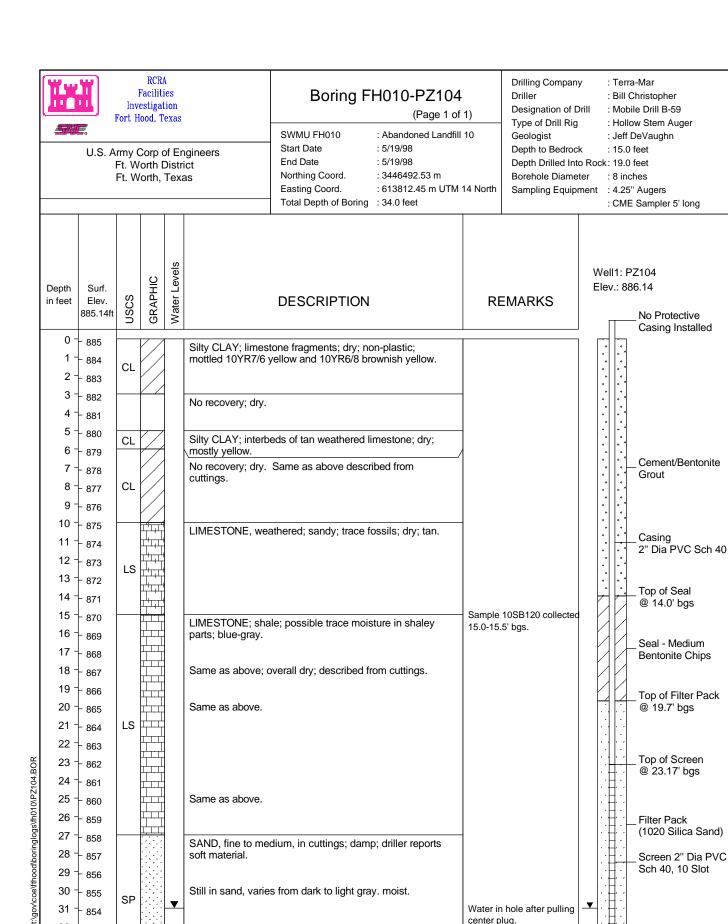
: Terra-Mar : Bill Christopher

Driller Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 24.5 feet

Depth Drilled Into Rock: 0.5 feet **Borehole Diameter** Sampling Equipment : 4.25" Augers

					Easting Coord. : 613968.07 m UTM Total Depth of Boring : 25.0 feet	14 North Sampling Equip	: CME Sampler 5' long
Depth in feet	Surf. Elev. 896.77ft	nscs	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	Well1: PZ103 Elev.: 900.07 No Protective Casing Installed
0 - 1 - 2 - 3 - 3 - 4 - 5 - 6 - 6 - 7 - 6 - 7 - 10 - 11 - 12 - 13 - 15 - 16 - 17 - 18 - 17 - 18 - 19 - 12 - 22 - 23 - 24 - 25 - 25 - 25 - 25 - 25 - 25 - 25	- 896 - 895 - 894 - 893 - 892 - 891 - 889 - 888 - 887 - 886 - 885 - 884 - 883 - 882 - 881 - 880 - 879 - 876 - 876 - 875 - 874 - 873 - 872	CL CL LS CL LS			Silty CLAY; damp below 1.0' bgs; plastic; firm; 2.5Y6/6 olive yellow. Same as above; damp. No recovery. Soil cuttings damp 2.5Y2.5/1 black clay (fill), no trash seen. Silty CLAY; damp; very plastic; 5Y5/4 olive with fragments of gley 7/5GY light greenish gray colored limestone. Silty CLAY; damp to dry; 2.5Y2.5/1 black. No recovery. Driller reported rock (cobble) at 12.0' bgs. Silty CLAY; limestone fragments (slightly greenish gray as previous); damp; stiff; plastic; 5Y5/4 olive. LIMESTONE, weathered; tan. No recovery. Same Silty CLAY interbedded with limestone; dry overall although silty clay is damp in places; 2.5Y6/6 olive yellow. No recovery Same as above described from soil cuttings. LIMESTONE; dry; blue-gray.	O ppm Sample 10SB119 collected 20.0-20.5' bgs. Note: 2.2 feet of natural cave-in at bottom of boring.	Cement/Bentonite Grout Top of Seal @ 3.5' bgs Seal - Medium Bentonite Chips Top of Filter Pack @ 8.0' bgs Casing 2" Dia PVC Sch 4 Top of Screen @ 11.96' bgs Filter Pack (1020 Silica Sand Screen 2" Dia PV Sch 40, 10 Slot Bottom of Screen @ 21.54' bgs
26 - 27 - 28 - 29 - 30 -	- 871 - 870 - 869 - 868 - 867				Bottom of Boring @ 25.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 revised edition.	



Still in sand, varies from dark to light gray, moist.

Bottom of Boring @ 34.0' bgs. (Hit rock again)

29

30

31

32

33

34

35

856

855

854

853

852

851

SP

 \blacksquare

Sch 40, 10 Slot

Bottom of Screen

@ 32.75' bgs

Water in hole after pulling

Soil colors from Munsell

Soil Color Chart, 1992

center plug.

revised edition.

APPENDIX B

Geophysical Investigation Results



Geophysical Services

A Service of Science Applications International Corporation

Technical Memorandum

To: Ms. Mary White

From: Mr. Jeffrey J. Warren

CC: Mr. Paul Kasper, Mr. D. Victor Brown, and Mr. Jeffrey L. Leberfinger

Date: 12/08/99

Re: Fort Hood, TX – SWMU FH010 Electrical Imaging Investigation

These documents are the results of the geophysical investigation performed at Fort Hood, Texas on July 13-16 and September 12-16, 1999. This investigation was performed to provide additional horizontal and vertical characterization of SWMU FH010 that is located northwest of the intersection with Clear Creek Road and Watercrest Road in the vicinity of the baseball fields. Site FH-010 is locate at the approximate elevation of 900 feet above mean sea level (msl). The site slopes to the west towards an unnamed tributary of Clear Creek that drains the site.

Fort Hood Cantonment Specific Hydrogeology

Shallow ground water on Fort Hood randomly occurs under perched water conditions in the overburden or weathered bedrock of the Fredericksburg Group. The occurrence of this perched water depends on both rainfall amount and frequency and subsurface geology and can be classified as seasonal in the Fort Hood area. When present, ground water flow in the low permeability clay soils is restricted and may be controlled by secondary features such as fractures in the soil. At the cantonments, the overburden and weathered bedrock are underlain by the Walnut Formation. The shale beds of the Walnut Formation restrict the vertical movement of ground water. The interbedded shales and limestones of the Walnut Formation do not yield water in the Fort Hood area.

The clay overburden is typically 15 to 30 feet thick, and the Walnut Formation varies in thickness from 100 to 175 feet (BEGM 1979). The low permeability of the overburden and Walnut Formation that cover the Paluxy Formation impede contamination from reaching this unit. However, the Paluxy Formation is vulnerable to contamination along streams and rivers that drain Fort Hood's cantonments. At the streams and rivers where the Paluxy Formation outcrops, it receives recharge from precipitation and from the alluvial and fluvial terrace deposits. The Paluxy Formation is vulnerable along the Leon River that drains the SWMUs located in north Fort Hood, along South Nolan Creek and Clear Creek that drain the SWMUs located at the main cantonment, and along Clear Creek that drains SWMUs located at west Fort Hood. The ground water of the Paluxy Formation provides an unknown amount of recharge to the Glen Rose Formation. The Glen Rose also receives recharge from precipitation where it outcrops along Cowhouse Creek and Clear Creek. The Glen Rose Formation yields

little to no water at Fort Hood. Interformational leakage also occurs between the Glen Rose and Travis Peak formations. Wells near the main cantonment which have been plugged were screened in the Travis Peak Formation at depths varying from 400 to 870 feet. These wells did yield usable quantities of water; however, the water contained concentrations of fluoride, chloride, and sulfate that exceeded U. S. Environmental Protection Agency (EPA) limits (Jore 1995). Site-Specific Geology

No site-specific geologic data from previous subsurface investigations are known to exist for this site.

According to the Geologic Atlas of Texas, Waco Sheet, the Cretaceous age Walnut Formation underlies the unconsolidated soil and is approximately 50 feet thick near Site FH-010 (Bureau of Economic Geology 1979). Underlying the Walnut Formation are the Paluxy, Glen Rose, and Travis Peak formations. These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are yielded from the Paluxy and Glen Rose formations. The Travis Peak Formation is the primary water-bearing unit in the area.

Subsurface Soil Pathway. The subsurface soil pathway is an important potential migration pathway because the landfill may have been constructed in native soil without an adequate liner. As a result, the subsurface soils can act as a long-term source of contaminants to other media. Contaminant release to groundwater can occur through leaching during periodic storm events that produce infiltration. The highest concentrations of contaminants would be expected to be deposited in the subsurface soils immediately beneath the landfill waste. Based on the geology and hydrogeology of the main cantonment area, the potential for the subsurface pathway is minimal.

PURPOSE AND SCOPE

During piezometer installation in May of 1998 one soil boring indicated the prescence of vinyl chloride. Since the extent of vinyl chloride was unknown and offsite migration is a concern, further investigation was warranted. Based on the apparent resistivity contrast between subsurface materials, an electrical imaging (EI) survey was proposed. EI is a geophysical technique which images the electrical properties of the subsurface. The EI data can be evaluated to identify distinct boundaries and conditions indicative of the buried subsurface waste materials and potential saturated zones under the site.

Electrical imaging involves measuring the resistivity of the earth along a series of profiles. Electrodes are planted in the earth with their separation being increased with successive traverses. Increasing electrode separation enables measurements of greater depth. Length of profile, depth of exploration, and resolution determine the electrode spacing, which can be anywhere from 1 meter to 50 meters or more.

DATA COLLECTION

To conduct the investigation, SAIC utilized a Swift, automatic, multielectrode system. Data was downloaded to a field computer for field evaluation and analysis. This ensures an adequate data set for comprehensive analysis and evaluation.

In June of 1999, SAIC investigated five traverses (FH10-1 through FH10-5) which were centered in the vicinity of the well with vinyl chloride detection and one traverse (FH10-6) was located south of the ballfields. These traverses varied in length from 112 meters to 222 meters with an electrode spacing of two meters. Data was collected with a dipole-dipole electrode configuration including a=6 and n=6. This traverse configuration and length was required to adequately delineate the extent of the saturated portion of the landfill.

Upon review of this data, it was determined that insufficient information was available in the vicinity of a sewer utility which trended north to south approximately 100m east of SB102. Since this utility trench may be a potential migration pathway, five additional traverses were investigated in this area. This work was conducted in September of 1999.

Subsequently, all EI electrode locations were mapped with a Trimble Pro-XRS GPS with submeter horizontal accuracy.

DATA ANALYSIS

Interpretation of the raw imaging (apparent resistivity) data without reduction would provide a product very similar to EM methods (i.e., the interpretation would only be qualitative.) Inversion of the data to true resistivities will provide a more unique or quantitative interpretation of the data. The inversion of the dipole data will also correct for effects of topography changes which can cause misleading interpretations of the raw apparent resistivity data from the dipole-dipole data set. SAIC utilized the resistivity inversion program RES2DINV to produce true resistivity models based on the apparent resistivity data.

Due to the nature of EI surveys, site soil conditions may affect measured resistivites. One factor that affects the measurements is the contact resistances between the electrode stake and the ground. During the June investigation, site soil conditions were moist and electrode stake placement was easy. During the September investigation, site soil conditions were dryer and more effort was required to plant electrode stakes. On both occasions, SAIC hydrated electrode stakes to ensure operable contact resistances of less than 1000 ohm meters. During the June investigation, contact resistances averaged approximately 400 ohm meters while the September investigation yielded contact resistances of approximately 600 ohm meters. Taking this into account, measured subsurface resistivity will vary, however, general trends are repeatable. Therefore, the general assumption is made that very low resistivity values are interpreted to be saturated zones while moderately high values are interpreted to be bedrock. Information obtained from soil boring SB102 was used to correlate resistivity measurements to subsurface conditions.

DATA RESULTS

A total of eleven EI traverses were investigated. As the investigation progressed, traverse placement was determined based on processed EI data, potential saturated zones, and aerial coverage.

The electrical imaging traverses pass near locations where geological information is available. FH10-1 through FH10-4 all intersect at soil boring SB-102. FH10-5 intersected FH10-1 and Fh10-3. FH10-6 is centered on piezometer PZ101. FH10-7 and FH10-8 paralleled the sewer utility, while FH10-9 and FH10-10 intersected the utility. This geologic information was utilized to correlate modeled resistivities values to top of rock and potential saturated zones.

For most of the traverses, a modeled resistivity of less than 10 ohmmeter correlates with the interpreted as a potential saturated zone. This is based on information gathered from SB102. Modeled resistivity values greater than 24 ohmmeter correlates with the interpreted weathered bedrock (limestone) based upon the drilling records. Furthermore, based on information obtained from PZ101, modeled resistivity values greater than 55 ohmmeter may correlate to an interbedded shale layer or competent limestone. These general assumptions are based on limited geologic in formation.

It is highly likely, that the EI survey is reflecting the anion and cation properties of the groundwater instead of the electrical properties of the formation (soil or bedrock). This interpretation could also be defined to represent lateral variations in subsurface porosity. Resistivity lows could be interpreted to represent areas of increased porosity, where the pore-space is occupied by more highly conductive (poorly resistive) materials. With this interpretation, the location of the low resistivity zones could represent areas preferential permeability for perched water and contaminant flow.

DATA MODELING AND BORING PLACEMENT

As part of data analysis, two-dimensional EI data was modeled with Earth Vision modeling to provide pseudo three-dimensional and aerial information. This information was used as a decision making tool for siting confirmatory borings and sample locations. This information is discussed in detail under separate cover.

In September of 1999, SAIC utilized a cone penetrometer truck to install soil borings. A total of eighteen borings were installed and yielded enough water to acquire a sample. In general, saturated borings appeared to correlate with areas of low measured resistivity. This information along with analytical data is discussed in more detail under separate cover.

GEOPHYSICAL DATA SUMMARY AND CONCLUSIONS

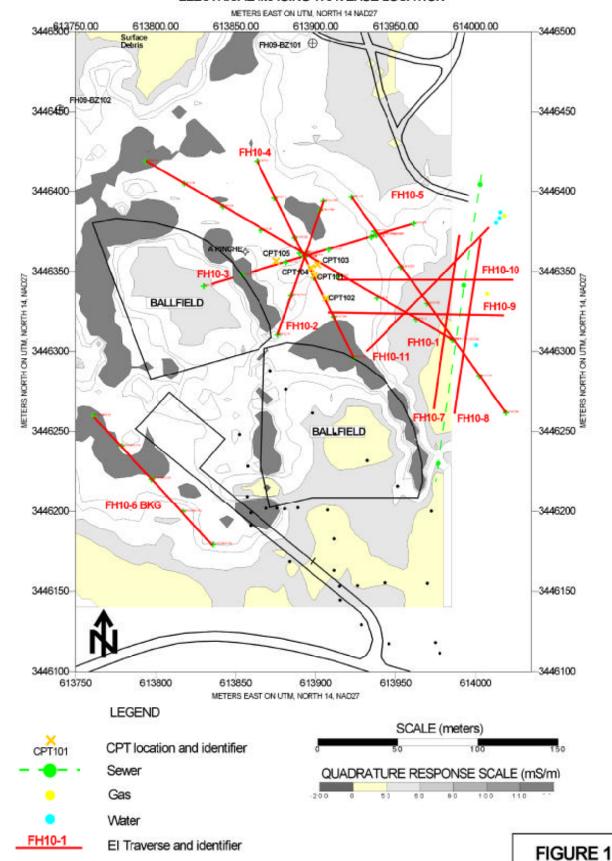
The proposed investigation work scope includes standard and/or routinely accepted practices of the geophysical industry. SAIC utilized the multiple geophysical investigation methods as a means to provide a series of checks and balances to provide subsurface models that reflect as unique as possible the subsurface

conditions at the site. However, by its nature, no subsurface survey is 100 percent accurate, and SAIC cannot accept responsibility for inherent technique limitations, survey limitations or unforeseen site-specific conditions. The identified boundaries separating materials of different physical properties may or may not coincide with boundaries separating materials of different lithologic, geologic or soil composition. This may result in the geophysical interpretation varying somewhat from the gross geologic, lithologic or soils setting of the site. With these constraints in mind, SAIC has drawn the following conclusions:

- 1. Electrical imaging as a technique is able to provide electrostratographic information about the site. The electrostratographic information does appear to correlate with the top of rock (limestone) and interbedded shales which are noted from the soil borings and well logs from the site. Since geologic information is limited, it is recommended that a future borings be conducted to confirm or deny this assumption.
- 2. Low resistivity zones have been identified, and interpreted to relate to perched water. The saturated zone noted during the installation of SB102 supports this
- 3. Borings were installed based on the EI information. Saturated borings appeared to correlate with the modeled EI data.
- 4. Pseudo three-dimensional processing of two-dimensional EI data improved the data visualization and the interpretation of the geophysical data.
- 5. In the future, when soil borings or wells are installed onsite, a conductivity log should be run in the borehole to acquire electrical properties of the soil and bedrock for the area. These electrical properties from this borehole geophysical technique should be correlated to the interpreted geology to examine the variations of electrical properties with sand, silt and clay variations. This information should in turn be used to re-examine the data collected and presented with this report as a means to refine the interpretation.
- 6. If future sampling activities indicate wide spread environmental impact, Electrical imaging would be a valuable tool to make correlations and characterize the site.
- 7. It is important to note that perched water conditions may be seasonal.

FORT HOOD, TEXAS LANDFILL FH-010 GEOPHYSICAL INVESTIGATION

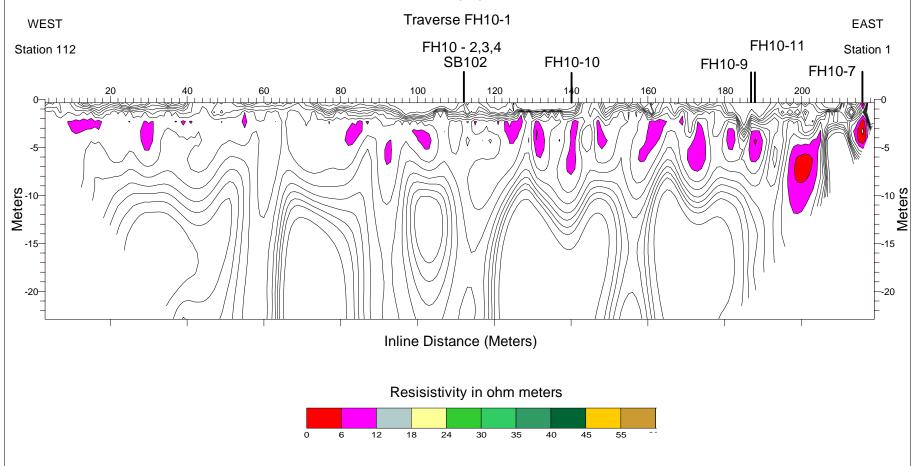
EM-31 QUADRATURE DATA ELECTRICAL IMAGING TRAVERSE LOCATION







Fort Hood, Texas SWMU FH010 Electrical Imaging Results

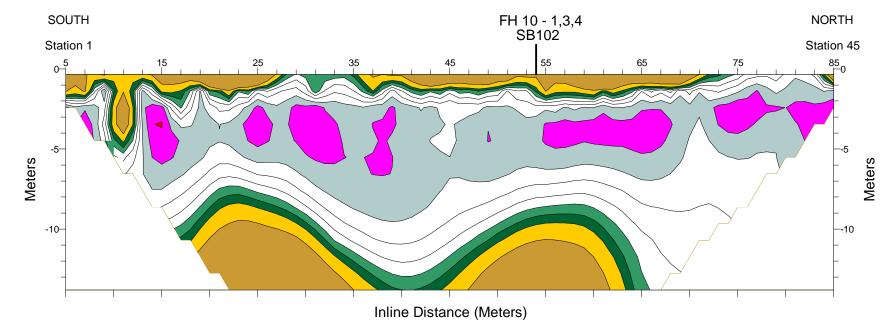


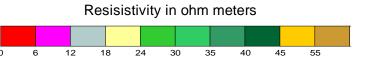


FH10-1EI.SRF

Fort Hood, Texas SWMU FH010 Electrical Imaging Results

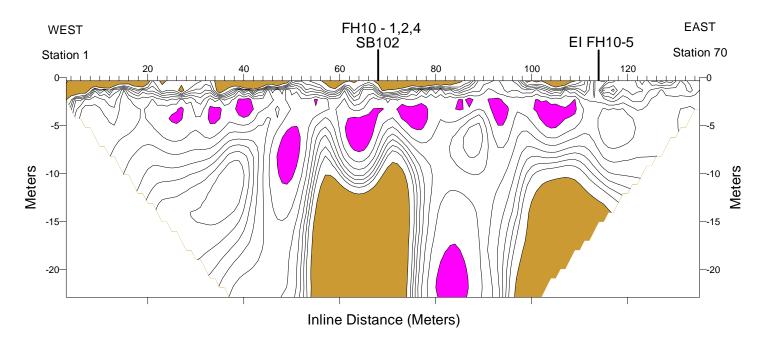
Traverse FH10-2

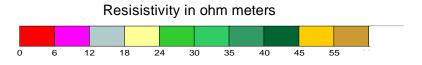






Fort Hood, Texas SWMU FH010 Electrical Imaging Results Traverse FH10-3

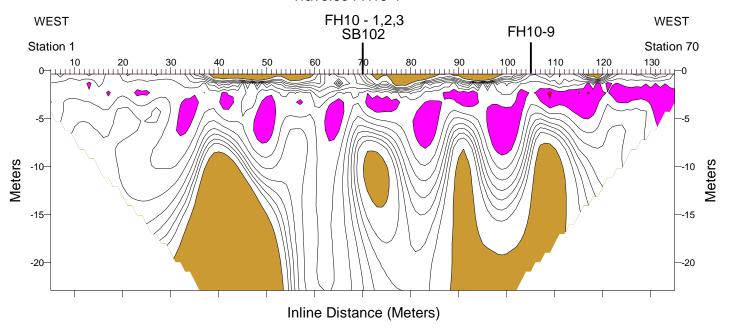






Fort Hood, Texas SWMU FH010 Electrical Imaging Results

Traverse FH10-4



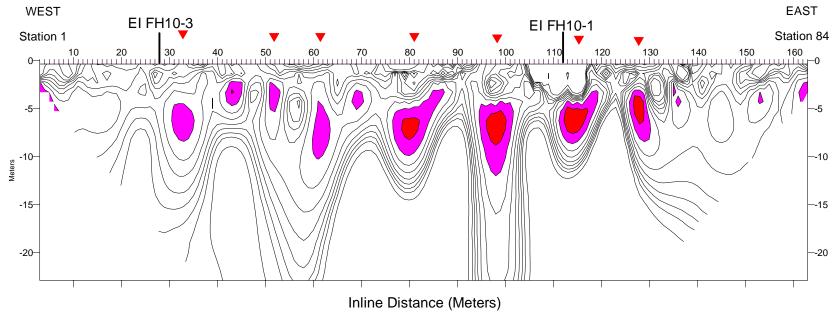
Resisistivity in ohm meters

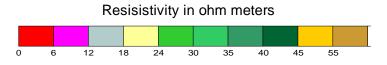




Fort Hood, Texas SWMU FH010 Electrical Imaging Results

Traverse FH10-5

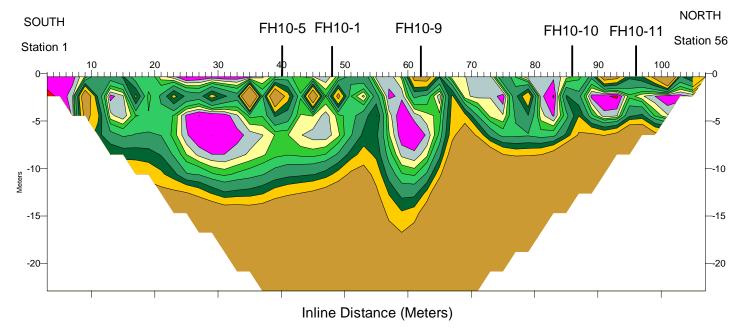


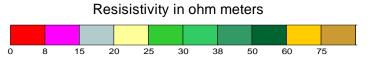


▼ Potential Geoprobe Sample Location



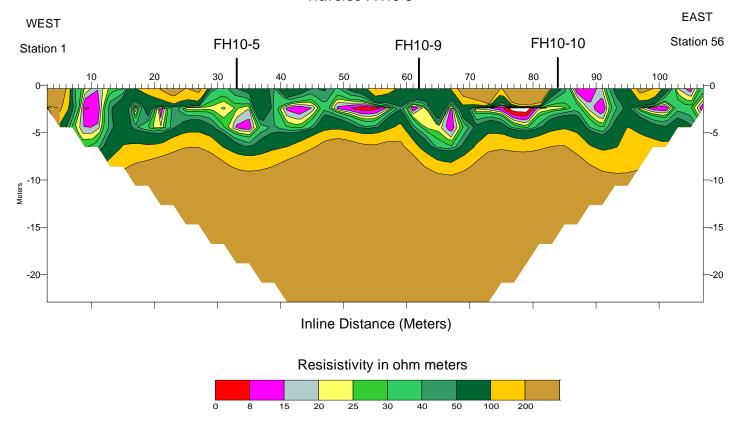
Fort Hood, Texas SWMU FH010 Electrical Imaging Results





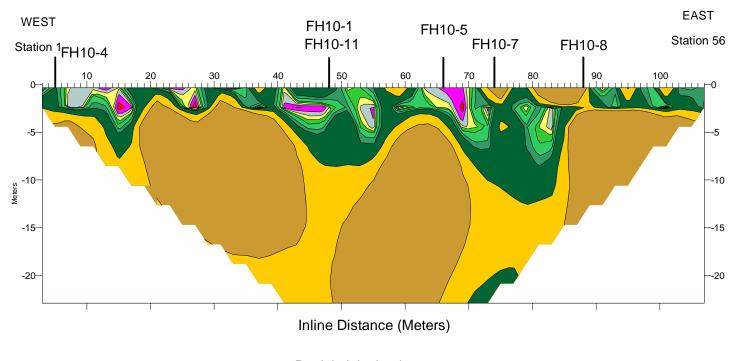


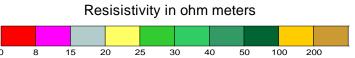
Fort Hood, Texas SWMU FH08 Electrical Imaging Results





Fort Hood, Texas SWMU FH010 Electrical Imaging Results







Fort Hood, Texas SWMU FH010 Electrical Imaging Results

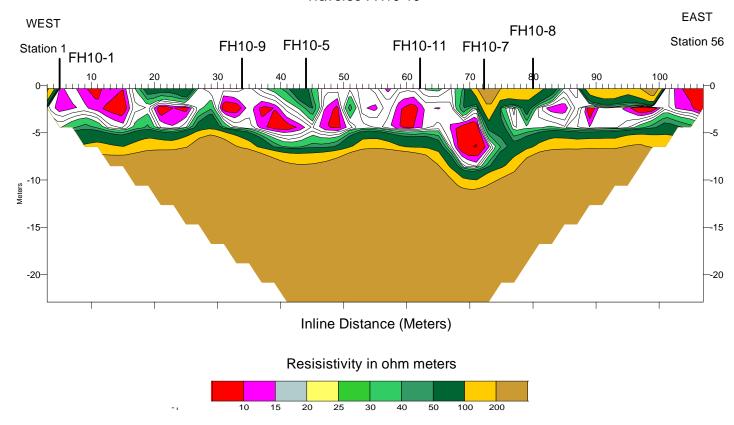
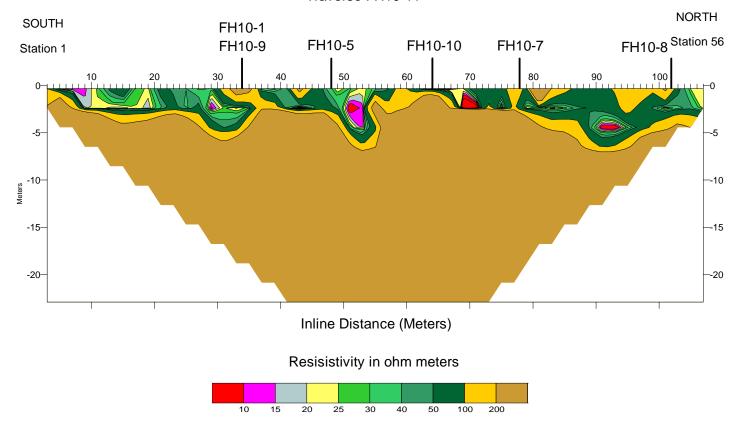




FIGURE 12

Fort Hood, Texas SWMU FH010 Electrical Imaging Results





APPENDIX C

FH-010 Analytical Results

 Location:
 PZ101

 Sample ID:
 10SB117
 Depth:
 20.0-21.0

 COE Sample ID:
 FH010-SB117/05-12-98/20.0-21.0

 Date Collected:
 5/12/98

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	12.1	0.18			mg/kg	SW846 6010
Barium	7440-39-3	3.8	0.13			mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	2.8	0.08	_	_	mg/kg	SW846 6010
Lead	7439-92-1	4.5	0.14			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.26	0.23	ENB	J	mg/kg	SW846 7740
Silver	7440-22-4	0.12	0.12	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	330	330	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	330	330	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	330	330	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	330	330	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	330	330	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	330	330	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1600	1600	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	330	330	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	330	330	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	330	330	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1600	1600	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	330	330	U	Ü	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	330	330	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	330	330	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	330	330	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	330	330	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	330	330	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1600	1600	U	U	ug/kg	SW846 8270
2-Nitrophenol 3,3'-Dichlorobenzidine	88-75-5	330	330	U	U	ug/kg	SW846 8270
3-Nitroaniline	91-94-1 99-09-2	660	660	U U	U U	ug/kg	SW846 8270
		1600	1600	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1 101-55-3	1600 330	1600 330	U	U	ug/kg	SW846 8270 SW846 8270
4-Bromophenyl-phenyl Ether 4-chloro-3-methylphenol	59-50-7	330	330	U	U	ug/kg	SW846 8270 SW846 8270
4-Chloroaniline	106-47-8	330	330	U	U	ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	330	330	Ü	U	ug/kg ug/kg	SW846 8270
4-Methylphenol	106-44-5	330	330	Ü	Ü	ug/kg ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1600	1600	U	U	ug/kg ug/kg	SW846 8270
4-Nitrophenol	100-01-0	1600	1600	U	U	ug/kg ug/kg	SW846 8270
Acenaphthene	83-32-9	330	330	U	U	ug/kg ug/kg	SW846 8270
Acenaphthylene	208-96-8	330	330	U	U	ug/kg ug/kg	SW846 8270
Anthracene	120-12-7	330	330	U	Ū	ug/kg ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	330	330	Ü.	Ü	ug/kg ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	330	330	Ü	U	ug/kg ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	330	330	U	U	ug/kg ug/kg	SW846 8270
Benzoic Acid	65-85-0	1600	1600	U	U	ug/kg ug/kg	SW846 8270
Benzyl Alcohol	100 - 51-6	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	330	330	Ü	Ü	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	330	330	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	330	330	Ü	Ü	ug/kg ug/kg	SW846 8270
Chrysene	218-01-9	330	330	Ü	Ŭ	ug/kg ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	330	330	Ü	U	ug/kg ug/kg	SW846 8270
Dibenzofuran	132-64-9	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	330	330	U	U	ug/kg ug/kg	SW846 8270
Directly I Phthalate Dimethyl Phthalate	131-11-3	330	330	U	U	ug/kg ug/kg	SW846 8270
Fluoranthene	206-44-0	330	330	U	Ü	ug/kg ug/kg	SW846 8270
Fluorene	86-73-7	330	330	U	U	ug/kg ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	330	330	Ü	U	ug/kg ug/kg	SW846 8270
110/motifol obelizatio	110-77-1	330	330	U	U	ng/kg	D 11 070 04/0

Location: PZ101 Sample ID: 103 COE Sample ID: Date Collected: 10SB117

B117 **Depth:** 20.0-21.0 FH010-SB117/05-12-98/20.0-21.0

5/12/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	330	330	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	330	330	Ü	Ŭ	ug/kg	SW846 8270
Hexachloroethane	67-72-1	330	330	Ü	Ū	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	330	330	Ü	Ū	ug/kg	SW846 8270
Isophorone	78-59-1	330	330	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	330	330	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	330	330	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	330	330	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	330	330	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1600	1600	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	330	330	U	U	ug/kg	SW846 8270
Phenol	108-95-2	330	330	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	330	330	\mathbf{U}	U	ug/kg	SW846 8270
Pyridine	110-86-1	330	330	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	3	5	J	J	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ū	Ū	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ū	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	. 5	Ŭ	Ü	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	Ŭ	Ü	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	Ū	Ŭ	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	Ū	Ū	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	Ū	Ū	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	z 5	Ŭ	Ū	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	Ŭ	Ũ	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	Ü	Ŭ	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	Ü	Ū	ug/kg	SW846 8260
Acetone	67-64-1	6	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Bromoform	75-25-2	3	5	J	j	ug/kg ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg ug/kg	SW846 8260
Chloroform	67-66-3	2	. 5	J	J	ug/kg ug/kg	SW846 8260
Chloromethane	74-87-3	5	. 5	U	U U		SW846 8260
Dibromochloromethane	124-48-1	5	5	Ŭ	U	ug/kg ug/kg	SW846 8260
Dibromoethane	74-95-3	5	5				
Dichlorodifluoromethane	74-93-3 75-71-8	5	5 5	U U	U	ug/kg	SW846 8260
		5 5			U	ug/kg	SW846 8260
Ethylbenzene Havachlarahutadiana	100-41-4 87-68-3		5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene		5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene Methydana Chlorida	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	18	5	В	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location: PZ101 Sample ID: 108 10SB117

COE Sample ID: Date Collected:

SB117 **Depth:** 20.0-21.0 FH010-SB117/05-12-98/20.0-21.0 5/12/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: PZ102

Sample ID: 10SB118 COE Sample ID:

118 **Depth:** 17.0-18.5 FH010-SB118/05-13-98/17.0-18.5

Date Collected: 5/13/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	6.4	0.19			mg/kg	SW846 6010
Barium	7440-39-3	3.3	0.14			mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.9	0.08			mg/kg	SW846 6010
Lead	7439-92-1	4.6	0.15			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.25	0.24	ENB	J	mg/kg	SW846 7740
Silver	7440-22-4	0.13	0.13	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	340	340	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	340	340	Ū	Ū	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	340	340	Ü	Ü	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	340	340	Ū	Ū	ug/kg	SW846 8270
1.4-Dichlorobenzene	106-46-7	340	340	Ū	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	340	340	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	340	340	U	$^{\circ}$ U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	340	340	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	340	340	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	340	340	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	340	340	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	340	340	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	340	340	· U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	340	340	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	340	340	U	\mathbf{U}	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	340	340	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	690	690	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	340	340	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	340	340	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	340	340	U	\mathbf{U}	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	340	340	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	340	340	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270

Location: PZ102 Sample ID: 105 COE Sample ID: Date Collected: 10SB118

SB118 **Depth:** 17.0-18.5 FH010-SB118/05-13-98/17.0-18.5 5/13/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	340	340	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	340	340	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	340	340	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	340	340	U	.U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	340	340	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	340	340	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	340	340	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	340	340	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	340	340	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	340	340	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	340	340	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	340	340	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	340	340	U	Ü	ug/kg	SW846 8270
Chrysene	218-01-9	340	340	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	340	340	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	340	340	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	340	340	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	340	340	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	340	340	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	340	340	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	340	340	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	340	340	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	340	340	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	340	340	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	340	340	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	340	340	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	340	340	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	340	340	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	340	340	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	340	340	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	340	340	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	340	340	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	340	340	U	U	ug/kg	SW846 8270
Phenol	108-95-2	340	340	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	340	340	U U	U U	ug/kg	' SW846 8270 SW846 8270
Pyridine	110-86-1	340	340	U	U	ug/kg	S W 840 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	Ü	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	\mathbf{U}	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	. 5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260

Location: PZ102 Sample ID: 10

COE Sample ID: Date Collected:

10SB118 118 **Depth:** 17.0-18.5 FH010-SB118/05-13-98/17.0-18.5

5/13/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
		_	_		**		G****0.4.C.00.C0
2-Hexanone	591-78-6	5 5	5 5	U	U U	ug/kg	SW846 8260 SW846 8260
4-Chlorotoluene	106-43-4 108-10-1	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1 67-64-1	2	5 5	1 U	J	ug/kg	SW846 8260
Acetone		5 .	5 5	J U	IJ	ug/kg	SW846 8260
Benzene	71-43-2	5 5	5 5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	•	-	U	U	ug/kg	SW846 8260
Bromochloromethane	74 - 97 - 5	5	5			ug/kg	SW846 8260 SW846 8260
Bromodichloromethane	75-27-4	5	5	U J	U J	ug/kg	SW846 8260
Bromoform	75-25-2 74-83-9	3	5 5	J U	J U	ug/kg	SW846 8260 SW846 8260
Bromomethane		5	5	_	-	ug/kg	
Carbon Tetrachloride	56-23-5	5	•	U	U U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	_	ug/kg	SW846 8260
Chloroethane	75-00-3	. 5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	Ū	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5 ,	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	. 5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	17	5	В	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	5			ug/kg	SW846 8260
n-propylbenzene	103-65-1	4	5	J	J	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99 -87 -6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	4	5	J	J	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	4	5	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260
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Location: PZ103 **Sample ID:** 10 10SB119

119 **Depth:** 20.0-20.5 FH010-SB119/05-13-98/20.0-20.5

COE Sample ID: Date Collected:

5/13/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.7	0.18			mg/kg	SW846 6010
Barium	7440-39-3	5.1	0.13			mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	2.8	0.08			mg/kg	SW846 6010
Lead	7439 - 92-1	2.8	0.14			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.23	0.23	U	U	mg/kg	SW846 7740
Silver	7440-22-4	0.12	0.12	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	320	320	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	320	320	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	320	320	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	320	320	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	320	320	U	U	ug/kg	SW846 8270

 Location:
 PZ103

 Sample ID:
 10SB119
 Depth:
 20.0-20.5

 COE Sample ID:
 FH010-SB119/05-13-98/20.0-20.5

 Date Collected:
 5/13/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,2'-oxybis(1-chloropropane)	108-60-1	320	320	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1600	1600	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	320	320	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	320	320	U	· U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	320	320	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1600	1600	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	320	320	Ü	Ū	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	320	320	Ū	Ū	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	320	320	Ŭ	Ŭ	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	320	320	Ŭ	Ŭ	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	320	320	Ŭ	Ŭ	ug/kg	SW846 8270
2-Methylphenol	95-48-7	320	320	Ü	Ü	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1600	1600	Ŭ	Ü	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	320	320	Ŭ	Ü	ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	650	650	Ü	Ü		SW846 8270
3-Nitroaniline	99-09-2	1600	1600	U	Ü	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1600	1600	U	Ü	ug/kg	
· ·						ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	320	320	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	320	320	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	320	320	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	320	320	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	320	320	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1600	1600	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1600	1600	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	320	320	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	320	320	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	320	320	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	320	320	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	320	320	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	320	320	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	320	320	Ū	Ū	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	320	320	Ū	Ū	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1600	1600	Ū	Ū	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	320	320	Ü	Ü	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	320	320	Ü	Ü	ug/kg ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	320	320	U	U	ug/kg ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	320	320 320	U	Ü		SW846 8270
Butyl Benzyl Phthalate	85-68-7	320	320	U	U	ug/kg	
•						ug/kg	SW846 8270
Chrysene	218-01-9	320	320	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	320	320	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	320	320	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	320	320	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	320	320	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	320	320	U	· "U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	320	320	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	320	320	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	320	320	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	320	320	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	320	320	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	320	320	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	320	320	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	320	320	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	320	320	Ŭ	Ŭ	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	320	320	Ü	Ŭ	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	320	320	Ŭ	Ŭ	ug/kg	SW846 8270
Naphthalene	91-20-3	320	320	Ü	ับ	ug/kg ug/kg	SW846 8270
Nitrobenzene	98-95-3	320	320		U		SW846 8270
				U		ug/kg	
Pentachlorophenol	87-86-5	1600	1600	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	320	320	U	U	ug/kg	SW846 8270
Phenol	108-95-2	320	320	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	320	320	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	320	320	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS 1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	Ū ·	ug/kg	SW846 8260
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 Location:
 PZ103

 Sample ID:
 10SB119
 Depth:
 20.0-20.5

 COE Sample ID:
 FH010-SB119/05-13-98/20.0-20.5

 Date Collected:
 5/13/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5 5	U	U U	ug/kg	SW846 8260
2-Butanone	78-93-3	5 5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8 591-78-6	5 5	5	U U	U	ug/kg	SW846 8260 SW846 8260
2-Hexanone 4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg ug/kg	SW846 8260
	108-10-1	5	5	U	Ü	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone Acetone	67 - 64-1	5	5	U	บ	ug/kg ug/kg	SW846 8260
Benzene	71-43-2	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	Ŭ	Ü	ug/kg ug/kg	SW846 8260
Bromoform	75-25-2	3	5	J	Ĵ	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	Ŭ	Ü	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	Ü	Ū	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	Ū	Ū	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	Ū	Ü	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U.	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	\cdot , \mathbf{U}	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	3	5	J	J	ug/kg	SW846 8260
Methylene Chloride	75-09-2	14	5	В	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	ũ	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	Ū	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	2	5	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5 5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	3	U	U	ug/kg	SW846 8260

 Location:
 PZ103

 Sample ID:
 10PZ101

 COE Sample ID:
 FH0

 Date Collected:
 6/2/98

101 **Depth:** NA FH010-PZ101/06-02-98

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2.9	U	U	ug/l	SW846 6010
Barium	7440-39-3	148	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U	U	ug/l	SW846 6010
Chromium	7440-47-3	5,7	0.7	В		ug/l	SW846 6010
Lead	7439-92-1	1.5	1.5	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	NU	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WNU	UJ	ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	Ú	ug/l	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	10	10	Ŭ	Ü	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	Ŭ	Ü	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	Ü	Ŭ	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	Ü	Ü	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ü	Ü	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	Ŭ	Ŭ	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	· Ü	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ü	บ	ug/l ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U		SW846 8270
	51-28-5	50	50	Ü	Ŭ	ug/l	SW846 8270
2,4-Dinitrophenol	121-14-2			U	U .	ug/l	
2,4-Dinitrotoluene		10	10			ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	\mathbf{U}	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/i	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	5	50	J	J	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	Ü	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	Ū	Ū	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	Ĵ	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	Ü	Ü	ug/l	SW846 8270
Chrysene	218-01-9	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	1	10	J	J	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U U	U	ug/l	SW846 8270
Di-n-octyl Phinalate Dibenz(a,h)anthracene	53-70-3	10	10	U	Ü	ug/l ug/l	SW846 8270
Dibenzofuran Dibenzofuran	132-64-9	10	10	U	U		SW846 8270 SW846 8270
	84-66-2		10	U	Ŭ	ug/l	
Diethyl Phthalate		10				ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270

 Location:
 PZ103

 Sample ID:
 10PZ101
 Depth:
 NA

 COE Sample ID:
 FH010-PZ101/06-02-98

 Date Collected:
 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	Ü	Ü	ug/l	SW846 8270
Isophorone	78-59-1	10	10	Ū	Ū	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	Ū	Ü	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	Ŭ	Ŭ	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	Ŭ	· Ü	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	Ü	Ü	ug/l	SW846 8270
Pentachlorophenol	87 - 86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ü	Ü		SW846 8270
						ug/l	
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	Ū	Ū	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	Ŭ	Ŭ	ug/l	SW846 8260
1.1-Dichloroethane	75-34-3	5	5	Ŭ	Ŭ	ug/l	SW846 8260
1,1-Dichloroethene	75-34-3 75-35-4	5	5	Ü	U	ug/l ug/l	SW846 8260
· ·		5		U	U		SW846 8260
1,1-Dichloropropene	563-58-6		5			ug/l	
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	. 5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1.2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	Ū	Ü	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	Ŭ	Ŭ	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	Ü	ug/l	SW846 8260
	108-67-8	5	5	U	Ü		
1,3,5-trimethylbenzene		<i>5</i>	5 5			ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1			U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	\mathbf{U}	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	Ü	Ū	ug/l	SW846 8260
Acetone	67-64-1	5	5	Ŭ	Ü		SW846 8260
	71-43-2		-	Ū	U	ug/l	
Benzene		5	5			ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	6	5			ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	· U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	Ü	Ü	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	Ü	Ŭ	ug/i	SW846 8260
Dibromochloromethane	124-48-1	5	5	Ü	Ü		
						ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	Ü	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	Ü	Ü	ug/l	SW846 8260

Location: PZ103

 Sample ID:
 10PZ101

 COE Sample ID:
 FH

 Date Collected:
 6/2/9

101 **Depth:** NA FH010-PZ101/06-02-98

6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butvlbenzene	98-06-6	5	5	U	U .	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: PZ104
Sample ID: 10SB120

120 **Depth:** 15.0-15.5 FH010-SB120/05-19-98/15.0-15.5

COE Sample ID:
Date Collected:

5/19/98

NORGANICS Arsenic Barium Cadmium Chromium Lead	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6	4.5 3.9 0.03 2.5	0.19 0.14 0.03			mg/kg	SW846 6010
Barium Cadmium Chromium	7440-39-3 7440-43-9 7440-47-3 7439-92-1	3.9 0.03 2.5	0.14				SW846 6010
Cadmium Chromium	7440-43-9 7440-47-3 7439-92-1	0.03 2.5					
Chromium	7440-47-3 7439-92-1	2.5	0.03			mg/kg	SW846 6010
	7439-92-1			U	U	mg/kg	SW846 6010
Lead			0.08			mg/kg	SW846 6010
	7439-97-6	3.7	0.15			mg/kg	SW846 6010
Mercury		0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.23	0.23	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.13	0.13	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	340	340	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	340	340	U	U	ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	340	340	U	Ù	ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	340	340	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	340	340	Ü	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	340	340	Ū	Ū	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	Ü	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	340	340	Ū	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	340	340	Ū	Ū	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	340	340	Ū	Ū	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	Ū	Ū	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	340	340	Ŭ	Ŭ	ug/kg	SW846 827
2.6-Dinitrotoluene	606-20-2	340	340	Ü	Ŭ	ug/kg	SW846 827
2-Chloronaphthalene	91-58-7	340	340	Ŭ	Ŭ	ug/kg	SW846 827
2-Chlorophenol	95-57-8	340	340	Ŭ	Ŭ	ug/kg	SW846 827
2-Methylnaphthalene	91-57-6	340	340	Ŭ	Ŭ	ug/kg	SW846 827
2-Methylphenol	95-48-7	340	340	Ŭ	Ŭ	ug/kg	SW846 827
2-Metryphenor 2-Nitroaniline	88-74-4	1700	1700	Ü	Ŭ	ug/kg	SW846 827
2-Nitrophenol	88-75-5	340	340	Ü	Ŭ	ug/kg	SW846 827
3,3'-Dichlorobenzidine	91-94-1	690	690	Ü	Ŭ	ug/kg	SW846 827
3-Nitroaniline	99-09-2	1700	1700	Ŭ	Ŭ	ug/kg ug/kg	SW846 827
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	Ü	Ü	ug/kg	SW846 827
4-Bromophenyl-phenyl Ether	101-55-3	340	340	U	U	ug/kg ug/kg	SW846 827
4-chloro-3-methylphenol	59-50-7	340 340	340	U	บ	ug/kg ug/kg	SW846 827
4-Chloroaniline	106-47-8	340	340	U	Ü	ug/kg ug/kg	SW846 827
	7005-72-3	340	340	U	Ü	ug/kg ug/kg	SW846 827
4-Chlorophenyl-phenylether	106-44-5	340 340	340	U	Ü	ug/kg ug/kg	SW846 827
4-Methylphenol	100-44-3		1700	U	U		SW846 827
4-Nitroaniline 4-Nitrophenol	100-01-6	1700 1700	1700	U	U	ug/kg ug/kg	SW846 8270

 Location:
 PZ104

 Sample ID:
 10SB120
 Depth:
 15.0-15.5

 COE Sample ID:
 FH010-SB120/05-19-98/15.0-15.5

 Date Collected:
 5/19/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	340	340	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	340	340	U	\mathbf{U}	ug/kg	SW846 8270
Anthracene	120-12-7	340	340	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	340	340	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	340	340	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	340	340	Ū	Ü	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	340	340	Ŭ	Ŭ	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	340	340	Ŭ	Ŭ	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	Ŭ	Ŭ	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	340	340	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	340	340	Ü	Ü	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	340	340	Ü	Ü	ug/kg ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	340	340	U	Ŭ	ug/kg ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	340	340	Ü	บ		SW846 8270
	218-01-9	340 340	340 340	U	U	ug/kg	
Chrysene Di-n-butyl Phthalate						ug/kg	SW846 8270
	84-74-2	340	340	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	340	340	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	340	340	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	340	340	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	340	340	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	340	340	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	340	340	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	340	340	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	340	340	U	\mathbf{U}	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	340	340	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	340	340	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	340	340	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	340	340	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	340	340	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	340	340	Ū	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	340	340	Ŭ	Ū	ug/kg	SW846 8270
Naphthalene	91-20-3	340	340	Ŭ	Ŭ	ug/kg	SW846 8270
Nitrobenzene	98-95-3	340	340	Ŭ	Ŭ	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	Ŭ	U	ug/kg ug/kg	SW846 8270
Phenanthrene	85 - 01-8	340	340	U	U	ug/kg ug/kg	SW846 8270
Phenol	108-95-2	340	340	U	U		SW846 8270
Pyrene	129-00-0	340	340	U	U	ug/kg	
Pyridine	110-86-1			U	U	ug/kg	SW846 8270
ryname	110-80-1	340	340	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	Ū	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ū	Ū	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1.2.4-Trichlorobenzene	120-82-1	5	5	Ŭ	Ü	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96 - 12-8	5	5	U	U		
1,2-Dibromoethane		5 5	5			ug/kg	SW846 8260
·	106-93-4			U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5 .	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
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BB120 **Depth:** 15.0-15.5 FH010-SB120/05-19-98/15.0-15.5 5/19/98

Location:PZ104Sample ID:10SB120COE Sample ID:FH0Date Collected:5/19/9

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	9	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5 .	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	3	5	J	J	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	12	5			ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	Ū	Ü	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ū	Ū	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: PZ104
Sample ID: 10PZ102 102 **Depth:** NA FH010-PZ102/06-02-98 COE Sample ID: Date Collected:

6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2,9	U	U	ug/i	SW846 6010
Barium	7440-39-3	76.9	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	NU	UJ	ug/l	SW846 6010
Chromium	7440-47-3	3.2	0.7	NB	UJ	ug/l	SW846 6010
Lead	7439-92-1	1.6	1.5	В		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	*U	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	U	U	ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	Ū	Ū	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	Ū	Ū	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	Ü	Ū	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	Ū	Ü	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270

Location: PZ104
Sample ID: 10PZ102
COE Sample ID: FH0
Date Collected: 6/2/98 PZ102 **Depth:** NA FH010-PZ102/06-02-98 6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ü	Ü	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ū	Ü	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	Ü	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	Ü	Ü	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	Ü	ug/l	SW846 8270
2.6-Dinitrotoluene	606-20-2	10	10	U	Ŭ	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	Ü	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	Ŭ	Ü	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	Ü	Ü	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	Ŭ	Ü	ug/l ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	Ŭ	Ü	ug/l ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	Ŭ		SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270 SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	Ü	ug/l	SW846 8270 SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	Ü	U	ug/l	
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	Ŭ	U	ug/l	SW846 8270
	106-44-5					ug/l	SW846 8270
4-Methylphenol 4-Nitroaniline	100-44-3	10 50	10 50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-01-8	50 50	50 50	U	U	ug/l	SW846 8270
•				U	U	ug/l	SW846 8270
Acenaphthene Acenaphthylene	83-32-9	10	10	U	U	ug/l	SW846 8270
	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3 50-32-8	10	10	U	Ü	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	. 10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U	U	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270
						-	
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	. 5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	Ü	Ü	ug/l	SW846 8260
2,1,1 1110/11010001111110	, 1-33-0	J	,	J	J	ug/1	5 11 070 0200



Location: PZ104

 Sample ID:
 10PZ102
 Depth:
 NA

 COE Sample ID:
 FH010-PZ102/06-02-98

 Date Collected:
 6/2/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	\mathbf{U}	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74 - 83-9	5	5	U U	U	ug/i	SW846 8260
Carbon Tetrachloride Chlorobenzene	56-23-5	5	5		U	ug/l	SW846 8260
Chloroethane	108-90-7 75-00-3	5 5	5 5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5 5	5	U U	U U	ug/l	SW846 8260
Chloromethane	74-87-3	5 5	5	Ü	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	Ŭ	U	ug/l	SW846 8260 SW846 8260
Dibromomethane	74-95-3	5	5	Ü	U	ug/l	SW846 8260 SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	. U	ug/l ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	Ū	ug/l ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	Ŭ	ug/l ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	Ŭ -	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	Ü	Ü	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	Ü	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	Ŭ	Ŭ	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	Ü	Ŭ	ug/l	SW846 8260
Styrene	100-42-5	5	5	Ŭ	Ŭ	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	Ü	Ŭ	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	Ü	Ŭ	ug/l	SW846 8260
Toluene	108-88-3	5	5	Ü	Ŭ	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	Ü	Ü	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	Ŭ	Ŭ	ug/l	SW846 8260
•			-	-	-	<i>5</i> -	

 Location:
 SB101

 Sample ID:
 10SB101

 COE Sample ID:
 FH0

 Date Collected:
 12/16/9

SB101 **Depth:** 0.0-0.5 FH010-SB101/12-16-96/0.0-0.5 12/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	4.9	0.38			mg/kg	SW846 6010
Barium	7440-39-3	39.9	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.13	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	6.6	0.09	ь			SW846 6010
		7.2				mg/kg	
Lead	7439-92-1		0.16	**		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.35	0.35	U		mg/kg	SW846 6010
Silver	7440-22-4	0.22	0.22	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	380	380	U		//	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	380	380	U		ug/kg	
• •						ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	380	380	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	380	380	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	380	380	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	380	380	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	· U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	380	380	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	380	380	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	380	380	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	380	380	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	380	380	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	380	380	Ū		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	380	380	Ŭ		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	380	380	Ŭ		ug/kg ug/kg	SW846 8270
2-Methylphenoi	95-48-7	380	380	Ü		ug/kg ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	Ü			SW846 8270
						ug/kg	
2-Nitrophenol	88-75-5	380	380	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	770	770	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	380	380	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	380	380	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	380	380	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	380	380	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	380	380	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	380	380	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	380	380	U		ug/kg	SW846 8270
Anthracene	120-12-7	380	380	Ū		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	380	380	Ŭ		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	380	380	Ü		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	380	380	Ü		ug/kg ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	380	380	U			
Benzo(k)fluoranthene	207-08-9	380				ug/kg	SW846 8270
Benzoic Acid			380	U		ug/kg	SW846 8270
	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	380	380	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	380	380	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	380	380	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	380	380	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	380	380	U		ug/kg	SW846 8270
Chrysene	218-01-9	380	380	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	380	380	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	380	380	Ü		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	380	380	Ū		ug/kg	SW846 8270
Dibenzofuran	132-64-9	380	380	Ŭ		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	380	380	Ü		ug/kg ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	380	380	Ü		ug/kg ug/kg	SW846 8270
Fluoranthene	206-44-0	380	380	U			
Fluorene	86-73-7	380	380			ug/kg	SW846 8270
Hexachlorobenzene				U		ug/kg	SW846 8270
HEXACINOFODERIZERE	118-74-1	380	380	U		ug/kg	SW846 8270

Location: SB101
Sample ID: 10SB101
COE Sample ID: FH0
Date Collected: 12/16/

SB101 **Depth:** 0.0-0.5 FH010-SB101/12-16-96/0.0-0.5 12/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	380	380	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	380	380	Ŭ		ug/kg ug/kg	SW846 8270
Hexachloroethane	67-72-1	380	380	Ŭ		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	380	380	Ŭ		ug/kg	SW846 8270
Isophorone	78-59-1	380	380	Ŭ		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	380	380	Ū		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	380	380	Ŭ		ug/kg	SW846 8270
Naphthalene	91-20-3	380	380	Ū		ug/kg	SW846 8270
Nitrobenzene	98-95-3	380	380	Ū		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	Ū		ug/kg	SW846 8270
Phenanthrene	85-01-8	380	380	Ū		ug/kg	SW846 8270
Phenol	108-95-2	380	380	Ü		ug/kg	SW846 8270
Pyrene	129-00-0	380	380	U		ug/kg	SW846 8270
Pyridine	110-86-1	380	380	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	. 6	U	U	ug/kg	SW846 8260
1.1.2.2-Tetrachloroethane	79-34-5	6	6	Ü	Ū	ug/kg	SW846 8260
1.1.2-Trichloroethane	79-00-5	6	6	Ū	Ū	ug/kg	SW846 8260
1.1-Dichloroethane	75-34-3	6	6	Ŭ	Ü	ug/kg	SW846 8260
1.1-Dichloroethene	75-35-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ü	Ŭ	ug/kg ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	Ū	U	ug/kg ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	Ü	U	ug/kg ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ü	Ü	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	. 6	U	Ŭ	ug/kg ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	Ü	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	Ü	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	Ü	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	Ü		SW846 8260
	108-10-1	6	6		Ü	ug/kg	SW846 8260
4-Methyl-2-pentanone		7	6	U B	Ü	ug/kg	
Acetone	67-64-1					ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	108-86-1 74-97-5	6	6	U	U	ug/kg	SW846 8260
		6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	·U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	6	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SB101

Sample ID: 1
COE Sample ID:
Date Collected: 10SB101

101 **Depth:** 0.0-0.5 FH010-SB101/12-16-96/0.0-0.5

12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101

10SB102 Sample ID:

COE Sample ID:

B102 **Depth:** 16.5-17.0 FH010-SB102/12-16-96/16.5-17.0

Date Collected:

12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	7.3	0.43			mg/kg	SW846 6010
Barium	7440-39-3	23.4	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	4.7	0.1			mg/kg	SW846 6010
Lead	7439-92-1	6.4	0.18			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.39	0.39	U		mg/kg	SW846 6010
Silver	7440-22-4	0.25	0.25	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U	U	ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	420	420	Ū	Ü	ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	420	420	U	U	ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	420	420	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U	$^{-}$ U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	420	420	U	U	ug/kg	SW846 8270

 Location:
 SB101

 Sample ID:
 10SB102
 Depth:
 16.5-17.0

 COE Sample ID:
 FH010-SB102/12-16-96/16.5-17.0

 Date Collected:
 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	420	420	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207 - 08-9	420	420	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	80	420	J	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	420	420	U	U	ug/kg	SW846.8270
Di-n-butyl Phthalate	84-74-2	420	420	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77 - 47-4	420	420	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U	Ü	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	420	420	Ū	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	Ū	Ū	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	Ū	Ū	ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	Ŭ	Ŭ	ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	Ŭ	Ŭ	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	Ŭ	Ŭ	ug/kg	SW846 8270
Phenanthrene	85-01-8	420	420	Ü	Ŭ	ug/kg	SW846 8270
Phenol	108-95-2	420	420	Ü	Ü	ug/kg	SW846 8270
Pyrene	129-00-0	420	420	U	Ü	ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	420	420	Ü	Ü	ug/kg ug/kg	SW846 8270
		· - .•	.20		Ü	~ ~	5
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	\mathbf{U}	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	·U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	\mathbf{U}	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	Ü	Ū	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ū	Ū	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	Ū	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	Ü	Ü	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	Ü	U	ug/kg ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	Ü	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	.U		SW846 8260
2-1 Texamone	331-70-0	O	O	U	· U	ug/kg	3 W 040 820U

Location: SB101

Sample ID: 10SB102 COE Sample ID: FH0

102 **Depth:** 16.5-17.0 FH010-SB102/12-16-96/16.5-17.0

Date Collected: 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	17	6	В	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108 - 86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	. 6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	\mathbf{U}	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	<i>75-</i> 71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	6	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	\mathbf{U}	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	. 6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	. 6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	. 6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101

10SB103 Sample ID: COE Sample ID:

B103 **Depth:** 25.5-26.0 FH010-SB103/12-16-96/25.5-26.0

Date Collected: 12/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
INORGANICS						
Arsenic	7440-38-2	5.9	0.35		mg/kg	SW846 6010
Barium	7440-39-3	2.3	0.09		mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.5	0.09		mg/kg	SW846 6010
Lead	7439-92-1	3.5	0.15		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 7470
Selenium	7782-49-2	0.32	0.32	U	mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	ug/kg	SW846 8270

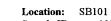
 Location:
 SB101

 Sample ID:
 10SB103
 Depth:
 25.5-26.0

 COE Sample ID:
 FH010-SB103/12-16-96/25.5-26.0

 Date Collected:
 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
2,4,6-Trichlorophenol	88-06-2	350	350	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	700	700	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	Ü	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	Ü	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	Ü	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	Ŭ	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	Ū	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	Ü	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	Ũ	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	Ū	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	Ū	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	Ü	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	Ŭ	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	Ū	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	Ü	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	Ŭ	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	Ü	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	Ü	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	Ü	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	Ū	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	Ŭ	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	Ŭ	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	Ŭ	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	Ŭ	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	Ü	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	Ŭ	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	Ü	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	Ü	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	Ü	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	Ŭ	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	350	350	Ŭ	ug/kg ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	Ŭ	ug/kg ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	Ū	ug/kg ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	Ŭ	ug/kg ug/kg	SW846 8270
Isophorone	78-59-1	350	350	Ŭ	ug/kg ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	Ü	ug/kg ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	Ŭ	ug/kg ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	ug/kg ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	ug/kg ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	Ŭ	ug/kg ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	ug/kg ug/kg	SW846 8270
Phenol	108-95-2	350	350	U		
Pyrene	129-00-0	350	350	U	ug/kg	SW846 8270 SW846 8270
Pyridine	110-86-1	350	350	U	ug/kg ug/kg	SW846 8270
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VOLATILE ORGANICS	(20.00.6	,	,	**	м	GM10 / < 00 / 0
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6 70 34 5	5	5	U U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U U	ug/kg	SW846 8260



 Sample ID:
 10SB103
 Depth:
 25.5-26.0

 COE Sample ID:
 FH010-SB103/12-16-96/25.5-26.0

 Date Collected:
 12/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1.1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	Ū	Ü	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	Ū	Ū	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	Ü	Ü	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	Ū	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ŭ	Ū	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichloropropane	78 - 87-5	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	Ŭ	Ü	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	Ŭ	ug/kg ug/kg	SW846 8260
1.4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	<i>5</i>	5	U	U	ug/kg ug/kg	SW846 8260
	78-93-3	5 5	5	U	U		
2-Butanone 2-Chlorotoluene	78-93-3 95-49-8	<i>5</i>	5	U	U	ug/kg	SW846 8260
-	591-78-6	<i>5</i>	5 5	U	U	ug/kg	SW846 8260
2-Hexanone						ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	8	5	В	U	ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	.5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	5	JВ	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	\mathbf{U}	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	32	5			ug/kg	SW846 8260
Trichloroethene	79-01-6	3	5	J	J	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	Ü	U	ug/kg	SW846 8260
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 Location:
 SB102

 Sample ID:
 10SB115
 Depth:
 0.0-1.0

 COE Sample ID:
 FH010-SB115/12-18-96/0.0-1.0

 Date Collected:
 12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.9	0.39			mg/kg	SW846 6010
Barium	7440-39-3	35.9	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.12	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	7	0.1	Ь		mg/kg	SW846 6010
Lead	7439-92-1	6.9	0.17				SW846 6010
				* *		mg/kg	
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.36	0.36	U		mg/kg	SW846 6010
Silver	7440-22-4	0.23	0.23	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	Ü		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	Ŭ		ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	390	390	Ŭ		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	Ŭ		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	Ŭ		ug/kg ug/kg	SW846 8270
	95-57-8	390	390	Ü			SW846 8270
2-Chlorophenol						ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U		ug/kg	
2-Methylphenol	95-48-7	390	390	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	Ü		ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	Ü		ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	Ŭ		ug/kg	SW846 8270
Anthracene	120-12-7	390	390	Ŭ		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	Ū		ug/kg ug/kg	SW846 8270
	50-32-8	390	390	U			SW846 8270
Benzo(a)pyrene	205-99-2		390			ug/kg	SW846 8270
Benzo(b)fluoranthene		390		U		ug/kg	
Benzo(g,h,i)perylene	191-24-2	390	390	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	100	390	J		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U		ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U,		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	Ü		ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	Ŭ		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	Ŭ		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	Ü		ug/kg ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U		ug/kg ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U			SW846 8270
Hexachlorobenzene	118-74-1	390 390	390 390	U		ug/kg	
Hexacillot openzene	110-/4-1	390	390	U		ug/kg	SW846 8270

 Location:
 SB102

 Sample ID:
 10SB115
 Depth:
 0.0-1.0

 COE Sample ID:
 FH010-SB115/12-18-96/0.0-1.0

 Date Collected:
 12/18/96

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	390	390	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	Ŭ		ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	Ū		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	Ü		ug/kg	SW846 8270
Isophorone	78-59-1	390	390	Ū		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	Ü		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	Ŭ		ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	U		ug/kg	SW846 8270
Phenol	108-95-2	390	390	U		ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U		ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	Ū	Ū	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	Ü	ug/kg ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	Ü	ug/kg ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	Ü	ug/kg ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	. 6	U	Ü	ug/kg ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U		
1,3,5-trimethylbenzene	108-67-8	6	6	U		ug/kg	SW846 8260
• •	541 - 73-1	6		_	U	ug/kg	SW846 8260
1,3-Dichlorobenzene 1,3-Dichloropropane	341-73-1 142-28-9	6	6	U U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6		U	ug/kg	SW846 8260
2,2-Dichloropropane			6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane 2-Butanone	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	78-93-3	6	6	U	U	ug/kg	SW846 8260
	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	19	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	. 75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	\mathbf{U}	\mathbf{U}	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	Ū	Ū	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	Ū	Ŭ	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Methylene Chloride	75-09-2	10	6	-	Ŭ	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	Ŭ	ug/kg ug/kg	SW846 8260
		•	•	C	-	~6 ~5	5 11 0 10 0 200

Location: SB102

Sample ID: 1
COE Sample ID:
Date Collected: B115 **Depth:** 0.0-1.0 FH010-SB115/12-18-96/0.0-1.0 10SB115

12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102

W101 **Depth:** NA FH010-GW101/12-19-96 Sample ID: FHGW101 COE Sample ID: Date Collected:

12/19/96

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	21.5	2.5			ug/l	SW846 6010
Barium	7440-39-3	254	0.3			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U	U	ug/l	SW846 6010
Chromium	7440-47-3	0.8	0.8	Ū	Ū	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U*	UJ	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	Ū	U	ug/l	SW846 7470
Selenium	7782-49-2	2.8	2.8	Ū	Ū	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	Ŭ		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	Ū		ug/l	SW846 8270
1.3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	27	10			ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	Ū		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ū		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	7	10	J		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	Ū		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	Ū		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	Ū		ug/l	SW846 8270
4-Methylphenol	106-44-5	5	10	J		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270

Location: SB102
Sample ID: FH
COE Sample ID:
Date Collected: GW101 **Depth:** NA FH010-GW101/12-19-96 12/19/96 FHGW101

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	Ŭ		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	Ŭ		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	Ū		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	9	10	J		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	Ū		ug/l	SW846 8270
Fluorene	86-73-7	10	10	Ū		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	Ū		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	Ū		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	Ŭ		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	Ŭ		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	Ŭ		ug/l	SW846 8270
Isophorone	78-59-1	10	10	Ŭ		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	Ŭ		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	15	10	v		ug/l	SW846 8270
Naphthalene	91 -2 0-3	50	10			ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ü		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ü		ug/l	SW846 8270
Phenol	108-95-2	10	10	Ū		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	Ŭ		ug/l ug/l	SW846 8270
•	110-80-1	50	30	O		ug/i	5 W 6-10 62 / 0
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	49	5			ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	Ū		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	Ū		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	7	5	_		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	Ŭ		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	39	5			ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	Ü		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	Ŭ		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	Ŭ		ug/l	SW846 8240
		-	-	_		b	2 2 10 02 10

Location: SB102

FHGW101

Sample ID: F
COE Sample ID:
Date Collected:

W101 **Depth:** NA FH010-GW101/12-19-96

12/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual Da	ta Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	Ū		ug/l	SW846 8240
Acetone	67-64-1	5	5.	U		ug/l	SW846 8240
Benzene	71-43-2	5	5			ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	79	5			ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	· U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	32	5			ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	6	5			ug/l	SW846 8240
m,p-Xylene	13-302-07	75	5			ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	9	5			ug/l	SW846 8240
Naphthalene	91-20-3	78	5			ug/l	SW846 8240
o-Xylene	95-47-6	13	5			ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	. 5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	2	5	J		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	Ū		ug/l	SW846 8240
Vinyl Chloride	75-01-4	20	5			ug/l	SW846 8240

Location: SB103 Sample ID: 10SB112 SB112 **Depth:** 0.0-1.0 FH010-SB112/12-18-96/0.0-1.0 12/18/96 COE Sample ID:
Date Collected:

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>						
Arsenic	7440-38-2	4.3	0.38		mg/kg	SW846 6010
Barium	7440-39-3	26.5	0.09		mg/kg	SW846 6010
Cadmium	7440-43-9	0.09	0.05	В	mg/kg	SW846 6010
Chromium	7440-47-3	6	0.09		mg/kg	SW846 6010
Lead	7439-92-1	5.6	0.16		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 7470
Selenium	7782-49-2	0.34	0.34	U	mg/kg	SW846 6010
Silver	7440-22-4	0.22	0.22	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	380	380	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	380	380	Ü	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	380	380	Ū	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	380	380	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	380	380	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	380	380	Ü	ug/kg	SW846 8270

Location: SB103
Sample ID: 103
COE Sample ID:
Date Collected: 10SB112 **Depth:** 0.0-1.0 **Depth:** 0.0-1.0 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2.4.5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	380	380	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	380	380	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	380	380	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	380	380	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	380	380	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	380	380	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	380	380	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	380	380	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	380	380	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	380	380	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	750	750	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	380	380	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	380	380	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	380	380	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	380	380	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	380	380	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	Ū		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	Ū		ug/kg	SW846 8270
Acenaphthene	83-32-9	380	380	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	380	380	Ū		ug/kg	SW846 8270
Anthracene	120-12-7	380	380	Ū		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	380	380	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	380	380	Ū		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	380	380	Ū		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	380	380	Ū		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	380	380	Ŭ		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	Ŭ		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	380	380	Ü		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	380	380	Ū		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	380	380	Ŭ		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	380	380	Ū		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	380	380	Ŭ		ug/kg	SW846 8270
Chrysene	218-01-9	380	380	Ū		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	380	380	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	380	380	Ü		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	380	380	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	380	380	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	380	380	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	380	380	Ū		ug/kg	SW846 8270
Fluoranthene	206-44-0	380	380	U	*	ug/kg	SW846 8270
Fluorene	86-73-7	380	380	Ū		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	380	380	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	380	380	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	380	380	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	380	380	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	380	380	U		ug/kg	SW846 8270
Isophorone	78-59-1	380	380	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	380	380	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	380	380	U		ug/kg	SW846 8270
Naphthalene	91-20-3	380	380	Ū		ug/kg	SW846 8270
Nitrobenzene	98-95-3	380	380	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	380	380	U		ug/kg	SW846 8270
Phenol	108-95-2	380	380	Ū		ug/kg	SW846 8270
Pyrene	129-00-0	380	380	Ü		ug/kg	SW846 8270
Pyridine	110-86-1	380	380	Ŭ		ug/kg	SW846 8270
						0 0	
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	บ	ug/kg ug/kg	SW846 8260
-y-ya assessor owniteles	, 1 55.0	J	U	U	U	"R VR	D 11 010 0200



 Location:
 SB103

 Sample ID:
 10SB112
 Depth:
 0.0-1.0

 COE Sample ID:
 FH010-SB112/12-18-96/0.0-1.0

 Date Collected:
 12/18/96

	,						
Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	\mathbf{U}	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	· 6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594 - 20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67 - 64-1	8	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74 - 83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108 - 90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	\cdot , \mathbf{U}	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	3	6	J	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103 - 65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103 Sample ID: 103 COE Sample ID: Date Collected:

10SB113 **Depth:** 15.5-16.0 **Depth:** 15.5-16.0 **Depth:** 15.5-16.0 12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	3.7	0.38			mg/kg	SW846 6010
Barium	7440-39-3	7.2	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U		mg/kg	SW846 6010
Chromium	7440-47-3	4.8	0.09			mg/kg	SW846 6010
Lead	7439-92-1	6.6	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.34	0.34	U		mg/kg	SW846 6010
Silver	7440-22-4	0.22	0.22	U		mg/kg	SW846 6010
GENTIOLATILE ODGANICO							
SEMIVOLATILE ORGANICS	05.04:2	200	200	**			034046 0070
1,2,4,5-Tetrachlorobenzene	95-94-3	380	380	U U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1 95-50-1	380 380	380 380	Ü		ug/kg	SW846 8270 SW846 8270
1,2-Dichlorobenzene 1,3-Dichlorobenzene	541-73-1	380	380	U		ug/kg ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	380	380	Ŭ		ug/kg ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	380	380	Ŭ		ug/kg ug/kg	SW846 8270
2,4.5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	380	380	Ü		ug/kg ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	380	380	Ŭ		ug/kg ug/kg	SW846 8270
2,4-Direntlylphenol	105-67-9	380	380	Ū		ug/kg ug/kg	SW846 8270
2,4-Diniethylphenol	51-28-5	1800	1800	Ū		ug/kg ug/kg	SW846 8270
2,4-Dinitrophenor	121-14-2	380	380	Ŭ		ug/kg ug/kg	SW846 8270
2.6-Dinitrotoluene	606-20-2	380	380	U		ug/kg ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	380	380	Ü		ug/kg ug/kg	SW846 8270
2-Chlorophenol	95-57-8	380	380	Ü		ug/kg ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	380	380	U		ug/kg ug/kg	SW846 8270
2-Methylphenol	95-48-7	380	380	Ü		ug/kg ug/kg	SW846 8270
2-Nitroaniline	88 - 74-4	1800	1800	U		ug/kg ug/kg	SW846 8270
2-Nitrophenol	88-75-5	380	380	Ü		ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	750	750	U		ug/kg ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	Ü		ug/kg ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	Ü		ug/kg ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	380	380	Ŭ		ug/kg ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	380	380	Ŭ		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	380	380	Ü		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	380	380	Ŭ		ug/kg	SW846 8270
4-Methylphenol	106-44-5	380	380	Ŭ		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	Ŭ		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	Ŭ-		ug/kg	SW846 8270
Acenaphthene	83-32-9	380	380	Ŭ		ug/kg	SW846 8270
Acenaphthylene	208-96-8	380	380	U		ug/kg	SW846 8270
Anthracene	120-12-7	380	380	Ū		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	380	380	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	380	380	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	380	380	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	380	380	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	380	380	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	380	380	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	380	380	·U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	380	380	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	380	380	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	380	380	U		ug/kg	SW846 8270
Chrysene	218-01-9	380	380	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	380	380	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	380	380	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	380	380	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	380	380	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	380	380	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	380	380	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	380	380	U		ug/kg	SW846 8270
Fluorene	86-73-7	380	380	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	380	380	U		ug/kg	SW846 8270

Location: SB103
Sample ID: 10SB113
COE Sample ID: FH0
Date Collected: 12/18/9 SB113 **Depth:** 15.5-16.0 FH010-SB113/12-18-96/15.5-16.0 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	380	380	. U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	380	380	Ū		ug/kg	SW846 8270
Hexachloroethane	67-72-1	380	380	Ŭ		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	380	380	Ŭ		ug/kg	SW846 8270
Isophorone	78-59-1	380	380	Ŭ		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	380	380	Ū		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	380	380	Ŭ		ug/kg	SW846 8270
Naphthalene	91-20-3	380	380	Ŭ		ug/kg	SW846 8270
Nitrobenzene	98-95-3	380	380	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	380	380	U		ug/kg	SW846 8270
Phenol	108-95-2	380	380	U ·		ug/kg	SW846 8270
Pyrene	129-00-0	380	380	U		ug/kg	SW846 8270
Pyridine	110-86-1	380	380	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	Ū	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ū	Ü	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ū	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	Ū	Ū	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	Ū	Ü	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ū	Ü	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	Ü	Ŭ	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ŭ	Ū	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	Ū	Ū	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	Ū	Ū	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	Ū	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	Ū	Ū	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	Ū	$\circ \bar{\mathbf{U}}$	ug/kg	SW846 8260
Acetone	67-64-1	37	6	Ü	Ŭ	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	Ŭ	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ŭ	Ū	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	Ū	Ū	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ū	Ū	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	Ū	Ū	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	Ū	Ü	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	Ū	Ū	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	Ū	Ū	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	Ü	Ŭ	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	Ū	ug/kg ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	· U	U	ug/kg ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg ug/kg	SW846 8260
Methylene Chloride	75-09-2	14	6	U	U	ug/kg ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
n-Datylociizene	107-21-0	U	U	U	U	ug/Kg	5 W 040 820U

Sample ID: 10SB113 COE Sample ID: FH0

Depth: 15.5-16.0 FH010-SB113/12-18-96/15.5-16.0

Date Collected: 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	9 5-47- 6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99 -87- 6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103

10SB114

Sample ID: 10 COE Sample ID:

114 **Depth:** 25.0-25.5 FH010-SB114/12-18-96/25.0-25.5

Date Collected: 12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
INORGANICS						
Arsenic	7440-38-2	4.5	0.35		mg/kg	SW846 6010
Barium	7440-39-3	1.9	0.09		mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.5	0.09		mg/kg	SW846 6010
Lead	7439-92-1	2.6	0.15		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 7470
Selenium	7782-49-2	0.32	0.32	U	mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	Ü	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	Ü	ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	350	350	Ü	ug/kg	SW846 8270
1.3-Dichlorobenzene	541-73-1	350	350	Ū	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	Ū	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U .	ug/kg	SW846 8270
2.4-Dimethylphenol	105-67-9	350	350	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	ug/kg	SW846 8270
4.6-Dinitro-o-Cresol	534-52-1	1700	1700	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U .	ug/kg	SW846 8270

 Location:
 SB103

 Sample ID:
 10SB114
 Depth:
 25.0-25.5

 COE Sample ID:
 FH010-SB114/12-18-96/25.0-25.5

 Date Collected:
 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	350	350	U		ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	Ū		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	Ū		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	Ū		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	Ŭ		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	Ŭ		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	Ŭ		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	Ŭ		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	Ŭ		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	120	350	J			SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U		ug/kg	SW846 8270
Chrysene	218-01-9	350	350	Ŭ		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	บ		ug/kg	
						ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U		ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	350	350	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U		ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U		ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	Ü		ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	Ŭ		ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	Ŭ		ug/kg	SW846 8270
Phenol	108-95-2	350	350	Ü		ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U		ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U		ug/kg ug/kg	SW846 8270
Tyridine	110-80-1	330	330	0		ug/kg	5 W 640 6270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	\mathbf{U}	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	\cdot \mathbf{U}	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ū	Ū	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ū	Ū	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ	Ū	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	Ü		
1,2-Dioromoemane			5			ug/kg	SW846 8260
1,2-Dichloroethane	95-50-1	5		U	U	ug/kg	SW846 8260
•	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260

114 **Depth:** 25.0-25.5 FH010-SB114/12-18-96/25.0-25.5

 Sample ID:
 10SB114

 COE Sample ID:
 FH0

 Date Collected:
 12/18/
 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	420	27	D		ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	10	5		U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	15	5			ug/kg	SW846 8260
Trichloroethene	79-01-6	11	5			ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB104 Sample ID: 108 10SB110

SB110 **Depth:** 0.0-1.0 FH010-SB110/12-18-96/0.0-1.0 12/18/96

COE Sample ID:

Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual I	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	5.5	0.42			mg/kg	SW846 6010
Barium	7440-39-3	51.3	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.58	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	10.2	0.1			mg/kg	SW846 6010
Lead	7439-92-1	13.9	0.18			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.38	0.38	U		mg/kg	SW846 6010
Silver	7440-22-4	0.24	0.24	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	420	420	U		ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	420	420	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U		ug/kg	SW846 8270

Location: SB104
Sample ID: 105
COE Sample ID:
Date Collected: 10SB110 **Depth:** 0.0-1.0 **ID:** FH010-SB110/12-18-96/0.0-1.0

12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	<u>Lab Qual</u>	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	2000	2000	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	Ŭ		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	Ū		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	Ū		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	Ū		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	Ū		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	Ū		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	840	840	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	420	420	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	420	420	U		ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	420	420	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	420	420	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U		ug/kg	SW846 8270
Chrysene	218-01-9	420	420	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	420	420	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U	*	ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	U		ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U		ug/kg	SW846 8270 SW846 8270
Hexachlorobenzene	118-74-1	420	420	U		ug/kg	
Hexachlorobutadiene	87-68-3	420	420	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U U		ug/kg	SW846 8270
Hexachloroethane	67 - 72-1 193 - 39-5	420 420	420 420	U		ug/kg	SW846 8270 SW846 8270
Indeno(1,2,3-cd)pyrene	78 - 59-1	420 420	420 420	U		ug/kg	
Isophorone	621-64-7	420 420		U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine			420	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6 91-20-3	420 420	420 420	U		ug/kg	SW846 8270
Naphthalene	98-95-3			U		ug/kg	SW846 8270
Nitrobenzene Pentachlorophenol	98-95-3 87-86-5	420 2000	420 2000	U		ug/kg	SW846 8270 SW846 8270
Phenanthrene	87-80-3 85-01-8	420	420	U		ug/kg ug/kg	SW846 8270 SW846 8270
Phenol	85-01-8 108-95-2	420 420	420 420	U			SW846 8270 SW846 8270
Prienoi Pyrene	108-93-2 129-00-0	420 420	420 420	U		ug/kg	SW846 8270 SW846 8270
•	110-86-1	420 420	420 420	Ū		ug/kg	
Pyridine	110-90-1	420	420	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260



 Sample ID:
 10SB110

 COE Sample ID:
 FH0

 Date Collected:
 12/18/5
 B110 **Depth:** 0.0-1.0 FH010-SB110/12-18-96/0.0-1.0

12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1.1.2.2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1.1.2-Trichloroethane	79-00-5	6	. 6	Ü	Ü	ug/kg ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	Ü	ug/kg ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	Ü	Ŭ	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	Ŭ	Ü	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	. 6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	Ŭ	Ü	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	Ŭ	U	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
Acetone	67-64-1	13	6	O	Ŭ	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	Ü	ug/kg ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ŭ	Ü	ug/kg	SW846 8260
Bromochloromethane	74 - 97-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ŭ	Ü	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	Ŭ	Ü	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	Ü	Ŭ	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	Ŭ	. Ŭ	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	Ŭ	Ū	ug/kg	SW846 8260
Methylene Chloride	75-09-2	3	6	Ĵ	Ŭ	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	Ü	Ü	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	Ü	Ŭ	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	Ū	Ŭ	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	Ŭ	Ŭ	ug/kg ug/kg	SW846 8260
Styrene	100-42-5	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	Ü	Ŭ	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Toluene	108-88-3	6	6	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	Ü	Ü	ug/kg ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	Ü	Ü	ug/kg	SW846 8260
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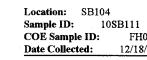
 Location:
 SB104

 Sample ID:
 10SB111
 Depth:
 25.0-25.5

 COE Sample ID:
 FH010-SB111/12-18-96/25.0-25.5

 Date Collected:
 12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>						
Arsenic	7440-38-2	4.6	0.36		mg/kg	SW846 6010
Barium	7440-39-3	2.3	0.09		mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U	mg/kg	SW846 6010
Chromium	7440-47-3	2	0.09	J	mg/kg	SW846 6010
Lead	7439-92-1	2.9	0.15		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 7470
Selenium	7782-49-2	0.32	0.32	Ŭ	mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	Ü	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	9 5- 95-4	1700	1700	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105 - 67-9	350	350	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	ug/kg	SW846 8270



SB111 **Depth:** 25.0-25.5 FH010-SB111/12-18-96/25.0-25.5 12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	350	350	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	Ŭ		ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	Ŭ		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	Ŭ		ug/kg	SW846 8270
Isophorone	78-59-1	350	350	Ŭ		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	Ŭ		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	Ü		ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	Ü		ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	Ŭ		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	Ŭ		ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	Ŭ		ug/kg	SW846 8270
Phenol	108-95-2	350	350	Ü		ug/kg	SW846 8270
Pyrene	129-00-0	350	350	Ŭ		ug/kg	SW846 8270
Pyridine	110-86-1	350	350	Ŭ		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1.1.2-Trichloroethane	79-00-5	5	5	Ü	Ū	ug/kg	SW846 8260
1.1-Dichloroethane	75-34-3	5	5	Ŭ.	Ū	ug/kg ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	Ü	U	ug/kg ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	บ	Ŭ	ug/kg ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ü	U	ug/kg ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ü	Ū	ug/kg ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ü	Ū	ug/kg ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U		SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ū	U	ug/kg ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U		
1,2-trans-Dichloroethene	156-60-5	5	5	U	U .	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	Ü	U		SW846 8260 SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg ug/kg	
2-Butanone	78-93-3	5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U		
2-Chlorototuene 2-Hexanone	591-78-6	5	5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U		SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/kg	
Acetone	67-64-1	110	5	U	U	ug/kg	SW846 8260 SW846 8260
Benzene	71-43-2	5	5	TI	U	ug/kg	
Bromobenzene	108-86-1			U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5 5	5 5	U	U	ug/kg	SW846 8260
Bromodichloromethane		5		U	U	ug/kg	SW846 8260
	75-27-4 75-25-2		5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2 74-83-9	5	5	U	U	ug/kg	SW846 8260
Bromomethane Carbon Tetrachloride		5	5	U	U	ug/kg	SW846 8260
	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorothoro	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloromothana	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	11	5		U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location:SB104Sample ID:10SB111COE Sample ID:FH0Date Collected:12/18/ 111 **Depth:** 25.0-25.5 FH010-SB111/12-18-96/25.0-25.5

12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	. 5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	8	5			ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB105

107 **Depth:** 0.0-1.0 FH010-SB107/12-17-96/0.0-1.0 Sample ID: 10SB107 COE Sample ID:
Date Collected:

12/17/96

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual Data Qual	<u>Units</u>	Method
INORGANICS						
Arsenic	7440-38-2	3.4	0.4		mg/kg	SW846 6010
Barium	7440-39-3	23.5	0.1		mg/kg	SW846 6010
Cadmium	7440-43-9	0.07	0.05	В	mg/kg	SW846 6010
Chromium	7440-47-3	6.6	0.1		mg/kg	SW846 6010
Lead	7439-92-1	3.5	0.17		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.36	0.36	Ū	mg/kg	SW846 6010
Silver	7440-22-4	0.23	0.23	Ü	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1.2.4.5-Tetrachlorobenzene	95-94-3	400	400	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	Ŭ	ug/kg	SW846 8270
1.2-Dichlorobenzene	95-50-1	400	400	Ŭ	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	Ü	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	Ŭ	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	Ŭ	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	Ü	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	Ŭ	ug/kg ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	Ŭ	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	Ŭ	ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	400	400	Ŭ	ug/kg ug/kg	SW846 8270
2.6-Dinitrotoluene	606-20-2	400	400	Ŭ	ug/kg ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	Ŭ	ug/kg ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	Ŭ	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	Ū	ug/kg ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	Ŭ	ug/kg ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	Ŭ	ug/kg ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	Ü	ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	Ü .	ug/kg ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	Ü	ug/kg ug/kg	SW846 8270
4.6-Dinitro-o-Cresol	534-52-1	1900	1900	U	ug/kg ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	ug/kg ug/kg	SW846 8270 SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	ug/kg ug/kg	SW846 8270 SW846 8270
4-Chloroaniline	106-47-8	400	400	U	ug/kg ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U		SW846 8270 SW846 8270
4-Methylphenol	106-44-5	400	400 400	U	ug/kg ug/kg	SW846 8270 SW846 8270
4-Nitroaniline	100-44-5	1900	1900	U	ug/kg ug/kg	SW846 8270 SW846 8270
4-Nitrophenol	100-01-0	1900	1900	Ŭ		SW846 8270 SW846 8270
4-141m obueitoi	100-02-7	1900	1900	U	ug/kg	SW8468270

Location: SB105
Sample ID: 10SB107
COE Sample ID: FH0
Date Collected: 12/17/ SB107 **Depth:** 0.0-1.0 FH010-SB107/12-17-96/0.0-1.0 12/17/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
Acenaphthene	83-32-9	400	400	U ·		ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	Ū		ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	19 1-24-2	400	400	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U		ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U		ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U		ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U		ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U		ug/kg	SW846 8270
Pentachlorophenoi	87-86-5	1900	1900	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U		ug/kg	SW846 8270
Phenol	108-95-2	400	400	U		ug/kg	SW846 8270
Pyrene	129-00-0	400	400	` U		ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630 -2 0-6	6	. 6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	··U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	. U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260



Sample ID:
COE Sample ID:
Date Collected: 107 **Depth:** 0.0-1.0 FH010-SB107/12-17-96/0.0-1.0 10SB107

12/17/96

<u>Parameter</u> `	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	140	6	В		ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	6	JВ	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	. U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	9 9-87- 6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	7	6			ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB105 Sample ID: 10SB108 SB108 **Depth:** 16.0-17.0 FH010-SB108/12-17-96/16.0-17.0 12/17/96 COE Sample ID: Date Collected:

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Q	ual <u>Units</u>	Method
INORGANICS						
Arsenic	7440-38-2	1.9	0.34		mg/kg	SW846 6010
Barium	7440-39-3	1.8	0.08		mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.1	0.08		mg/kg	SW846 6010
Lead	7439-92-1	2	0.15		mg/kg	SW846 6010
Mercury	7439-97-6	0.03	0.03	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.31	0.31	U	mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	Ū.	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	340	340	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	340	340	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	340	340	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541 -7 3-1	340	340	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	340	340	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	340	340	U	ug/kg	SW846 8270

Location: SB105 Sample ID: 108 COE Sample ID: Date Collected: SB108 **Depth:** 16.0-17.0 FH010-SB108/12-17-96/16.0-17.0 12/17/96 10SB108

<u>Parameter</u>	CAS Number	<u>Result</u>	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1700	1700	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	340	340	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	340	340	· U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	340	340	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	340	340	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	340	340	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	340	340	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	340	340	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	340	340	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	340	340	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U		ug/kg	SW846 8270
2-Nitrophenol	88 - 75-5	340	340	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91 -94- 1	690	690	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	340	340	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	340	340	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	340	340	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	340	340	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	340	340	\mathbf{U}		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	340	340	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	340	340	U		ug/kg	SW846 8270
Anthracene	120-12-7	340	340	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	340	340	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	340	340	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	340	340	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	340	340	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	340	340	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	340	340	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	340	340	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	340	340	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	38	340	J		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	340	340	U		ug/kg	SW846 8270
Chrysene	218-01-9	340	340	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	340	340	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	340	340	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	340	340	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	340	340	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	340	340	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	340	340	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	340	340	U		ug/kg	SW846 8270
Fluorene	86-73-7	340	340	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	340	340	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	340	340	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	340	340	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	340	340	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	340	340	U		ug/kg	SW846 8270
Isophorone	78-59-1	340	340	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	340	340	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	340	340	U		ug/kg	SW846 8270
Naphthalene	91-20-3	340	340	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	340	340	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	340	340	U		ug/kg	SW846 8270
Phenoi	108-95-2	340	340	U		ug/kg	SW846 8270
Pyrene	129-00-0	340	340	U		ug/kg	SW846 8270
Pyridine	110-86-1	340	340	U		ug/kg	SW846 8270
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VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg ug/kg	SW846 8260
1,1,1*I I tellior ocularie	/1-33-0	J	,	U	U	ug/kg	5 W 040 0200



Location: SB105
Sample ID: 10SB108
COE Sample ID: FH0
Date Collected: 12/17/5 SB108 **Depth:** 16.0-17.0 FH010-SB108/12-17-96/16.0-17.0 12/17/96

1.1.2.Trianbroethame	Parameter	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
1,1-Dichiorocheme	1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichlorospene	1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichhorpropene	· ·					_	ug/kg	SW846 8260
1,2,3-Trichloropropane	,	75-35-4			U	U	ug/kg	SW846 8260
12.3-Trichloropropane	1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1.2.4-frinchlorberezene	1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,24-trimethylbenzene	1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2-i-i-bichloroetheme	1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2-bitromo-s-hibropropane	1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1.2-Dichlorobenzene	1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1.2-Dichloroptopropane 107-06-2 5 5 U U ug/kg SW846 8260 1.2-Irans-Dichloroptopane 156-60-5 5 5 U U ug/kg SW846 8260 1.2-Irans-Dichloroptopane 156-60-5 5 5 U U ug/kg SW846 8260 1.3-Dichloroptopane 142-28-9 5 5 U U ug/kg SW846 8260 1.3-Dichloroptopane 142-28-9 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 164-67-7 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 164-67-7 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 194-28-9 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 194-28-9 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 194-28-9 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 194-28-9 5 5 U U ug/kg SW846 8260 1.4-Dichloroptopane 78-91-3 5 5 U U ug/kg SW846 8260 2-Dichloroptopane 78-91-3 5 5 U U ug/kg SW846 8260 2-Dichloroptopane 95-49-8 5 5 U U ug/kg SW846 8260 2-Dichloroptopane 95-49-8 5 5 U U ug/kg SW846 8260 2-Dichloroptopane 95-49-8 5 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 B U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5 U U ug/kg SW846 8260 2-Dichloroptopane 198-40-1 15 5	1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroptopane	1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1.2-trans-Dichloroethene	1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	1,2-trans-Dichloroethene	156-60-5	5	5	U	U		SW846 8260
1,3-Dichloropropane		108-67-8	5	5	U	U		SW846 8260
1.3-Dichloropropane 142-28-9 5 5 U U ug/kg SW846 8260	* *		5	5		U		
A-Dichlorobenzene								
2.2-Dichloropropane				5		-		
2-Butanone								
2-Chlorotoluene 95.49-8 5 5 U U ugkg SW846 8260 4-Methyl-2-pentanone 106-43-4 5 5 5 U U ugkg SW846 8260 4-Methyl-2-pentanone 108-10-1 5 5 U U ugkg SW846 8260 4-Methyl-2-pentanone 108-10-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-10-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-10-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-10-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-86-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-80-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-80-1 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-90-7 5 5 U U ugkg SW846 8260 8-Methyl-2-pentanone 108-90-7 5 5 U U ugkg SW846 8260 Chlorotomethane 108-90-7 5 5 U U ugkg SW846 8260 Chlorotomethane 108-90-7 5 5 U U ugkg SW846 8260 Chlorotomethane 108-90-7 5 U U ugkg SW846 8260 Chlorotomethane 108-90-7 5 U U ugkg SW846 8260 Chlorotomethane 12-4-8-1 5 U U ugkg SW846 8260 Dibromonethane 13-4-8-3 5 U U ugkg SW846 8260 Ethylbenzene 100-41-4 5 5 U U ugkg SW846 8260 Ethylbenzene 100-41-4 5 U U ugkg SW846 8260 Ethylbenzene 13-302-07 5 U U ugkg SW846 8260 Ethylbenzene 13-302-07 5 U U ugkg SW846 8260 mp-ptylbenzene 104-51-8 5 U U ugkg SW846 8260 Naphthalene 13-59-8 5 U U ugkg SW846 8260 Naphthalene 13-59-	,			-		-		
2-Hexanone				-				
4-Chlorotoluene 106-43-4 5 5 U U ug/kg SW846 8260				_				
A-Methyl-2-pentanone 108-10-1 5 5 U U ug/kg SW846 8260								
Acetone 67-64-1 15 5 B U ug/kg SW846 8260 Benzene 71-43-2 5 5 5 U U ug/kg SW846 8260 Bromobenzene 108-86-1 5 5 U U ug/kg SW846 8260 Bromochloromethane 74-97-5 5 5 U U ug/kg SW846 8260 Bromochloromethane 75-27-4 5 5 U U ug/kg SW846 8260 Bromochloromethane 75-27-4 5 5 U U ug/kg SW846 8260 Bromoform 75-25-2 5 5 U U U ug/kg SW846 8260 Bromoform 75-25-2 5 5 U U U ug/kg SW846 8260 Bromoform 75-25-2 5 5 U U U ug/kg SW846 8260 Bromoform 75-25-2 5 5 U U U ug/kg SW846 8260 Bromoform 75-25-2 5 5 U U U ug/kg SW846 8260 Carbon Tetrachloride 56-623-5 5 U U U ug/kg SW846 8260 Chlorobenzene 108-90-7 5 5 U U U ug/kg SW846 8260 Chlorobenzene 108-90-7 5 5 U U U ug/kg SW846 8260 Chlorobenzene 75-00-3 5 5 U U U ug/kg SW846 8260 Chloroform 67-66-3 5 5 U U U ug/kg SW846 8260 Chloromethane 74-87-3 5 5 U U U ug/kg SW846 8260 Chloromethane 74-87-3 5 5 U U U ug/kg SW846 8260 Chloromethane 124-48-1 5 5 U U ug/kg SW846 8260 Dibromochloromethane 124-48-1 5 5 U U ug/kg SW846 8260 Dibromochloromethane 74-95-3 5 U U ug/kg SW846 8260 Dibromochloromethane 75-71-8 5 U U ug/kg SW846 8260 Dichlorodifluoromethane 75-71-8 5 U U ug/kg SW846 8260 Ehylbenzene 100-41-4 5 5 U U ug/kg SW846 8260 Isopropyl Benzene 98-82-8 5 U U ug/kg SW846 8260 Isopropyl Benzene 98-82-8 5 U U ug/kg SW846 8260 Isopropyl Benzene 98-82-8 5 U U ug/kg SW846 8260 Isopropyl Benzene 103-65-1 5 U U ug/kg SW846 8260 n-propylbenzene 103-65-1 5 U U ug/kg SW846 8260 n-propylbenzene 103-65-1 5 U U ug/kg SW846 8260 Naphthalene 91-20-3 5 U U ug/kg SW846 8260 SW846 8260 Naphthalene 91-20-3 5 U U ug/kg SW846 8260 SW846 8260 SW946 8260 SW9								
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Vinyl Chloride 75-01-4 5 5 U U ug/kg SW846 8260								
	Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 10SB109
COE Sample ID: FH0
Date Collected: 12/17/ SB109 **Depth:** 27.0-28.0 FH010-SB109/12-17-96/27.0-28.0 12/17/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.2	0.35			mg/kg	SW846 6010
Barium	7440-39-3	2	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U		mg/kg	SW846 6010
Chromium	7440-47-3	1.4	0.09			mg/kg	SW846 6010
Lead	7439 - 92-1	3.1	0.15			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 6010
Selenium	7782-49-2	0.32	0.32	U		mg/kg	SW846 6010
Silver	7440-22-4	0.2	0.2	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	\mathbf{U}		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108 - 60-1	350	350	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U		ug/kg	SW846 8270
4-Chlorophymyl phomylether	106-47-8	350 350	350	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether 4-Methylphenol	7005-72-3 106-44-5	350 350	350 350	U U		ug/kg	SW846 8270
4-Nitroaniline	100-44-5		1 700			ug/kg	SW846 8270
4-Nitrophenol		1700 1700	1700	U		ug/kg	SW846 8270
Acenaphthene	100-02-7 83-32-9	350	350	U U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U		ug/kg	SW846 8270
Anthracene	120-12-7	350	350	Ü		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	Ü		ug/kg	SW846 8270 SW846 8270
Benzo(a)pyrene	50-32-8	350	350 350	Ŭ		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	Ü		ug/kg ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	Ü		ug/kg ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U		ug/kg ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U		ug/kg ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	Ŭ		ug/kg ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U		ug/kg ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U		ug/kg ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	Ü		ug/kg ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	Ü		ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U		ug/kg ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	Ü		ug/kg ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U		ug/kg ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	Ŭ		ug/kg ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	Ü		ug/kg ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U		ug/kg ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U		ug/kg ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U		ug/kg ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U		ug/kg ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	Ü		ug/kg ug/kg	SW846 8270
	110 / 1 4	550	330	Ü		"ENE	0 11 0 10 02/0

Location: SB105 Sample ID: 108 COE Sample ID: 10SB109 **Depth:** 27.0-28.0 **ID:** FH010-SB109/12-17-96/27.0-28.0 **d:** 12/17/96

Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	350	350	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	Ū		ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U		ug/kg	SW846 8270
Isophorone	78-59-1	350	350	Ü		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U		ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U		ug/kg	SW846 8270
Phenol	108-95-2	350	350	U		ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U		ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	Ū	Ū	ug/kg	SW846 8260
1.1.2-Trichloroethane	79-00-5	5	5	Ü	Ũ	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	Ü	Ŭ	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	Ŭ	Ū	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	Ū	ug/kg ug/kg	SW846 8260
	87 - 61-6	5	5	Ü	U	ug/kg ug/kg	SW846 8260
1,2,3-Trichlorobenzene	96-18-4	5	5	U	U	ug/kg ug/kg	SW846 8260
1,2,3-Trichloropropane	120-82-1	5	5	U	U	ug/kg ug/kg	SW846 8260
1,2,4-Trichlorobenzene		5	5	U	Ü		SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5			ug/kg	
1,2-dibromo-3-chloropropane	96-12-8			U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	$^{-}$ U	ug/kg	SW846 8260
Acetone	67-64-1	43	5	В	U	ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	Ū	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	Ū	Ū	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	Ü	Ŭ	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	Ü	ug/kg ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	Ŭ .	ug/kg ug/kg	SW846 8260
	98-82-8	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Isopropyl Benzene m,p-Xylene	13-302-07	5	5 5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
m.p-xylene Methylene Chloride	75-09-2	2	5 5	JВ	U	ug/kg ug/kg	SW846 8260 SW846 8260
	104-51-8	5	5 5	U	U		SW846 8260 SW846 8260
n-Butylbenzene	104-31-8	3	3	U	U	ug/kg	3 W 640 820U

Location: SB105
Sample ID: 105
COE Sample ID:
Date Collected: SB109 **Depth:** 27.0-28.0 FH010-SB109/12-17-96/27.0-28.0 12/17/96 10SB109

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U ·	ug/kg	SW846 8260
Toluene	108-88-3	26	5			ug/kg	SW846 8260
Trichloroethene	79-01-6	4	5	J	J	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB106 Sample ID: 10SB104 104 **Depth:** NA FH010-SB104/12-16-96/0.0-0.5 COE Sample ID:
Date Collected:

12/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	3.9	0.4			mg/kg	SW846 6010
Barium	7440-39-3	55.3	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.14	0.05	В		mg/kg	SW846 6010
Chromium	7440-47-3	7.1	0.1			mg/kg	SW846 6010
Lead	7439-92-1	7.5	0.17			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U		mg/kg	SW846 7470
Selenium	7782-49-2	0.36	0.36	U		mg/kg	SW846 6010
Silver	7440-22-4	0.23	0.23	U		mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U		ug/kg	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	400	400	Ŭ		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	Ŭ		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	Ū		ug/kg	SW846 8270
1.4-Dichlorobenzene	106-46-7	400	400	Ŭ		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	Ü		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	Ü		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	Ŭ	4,	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	Ū	*	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270

Location: SB106
Sample ID: 108
COE Sample ID:
Date Collected:

10SB104

SB104 **Depth:** NA FH010-SB104/12-16-96/0.0-0.5 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthene	83-32-9	400	400	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U		ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U		ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	Ü		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U		ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193 - 39-5	400	400	U		ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U		ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U		ug/kg	SW846 8270
Phenol	108-95-2	400	400	U		ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U		ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	$^{-}$ U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	. 6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1.2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	Ū	Ū	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ü	Ū	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
	-,, -,						
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260

Location: SB106 Sample ID: 108 COE Sample ID: Date Collected: SB104 **Depth:** NA FH010-SB104/12-16-96/0.0-0.5 12/16/96 10SB104

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	6	JB	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U -	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	9 8- 06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	10	6			ug/kg	SW846 8260
Trichloroethene	79-01-6	2	6	J	J	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB106 Sample ID: 10SB105 105 **Depth:** 15.5-16.0 FH010-SB105/12-16-96/15.5-16.0 COE Sample ID: Date Collected:

12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
INORGANICS						
Arsenic	7440-38-2	13.3	0.37		mg/kg	SW846 6010
Barium	7440-39-3	7.7	0.09		mg/kg	SW846 6010
Cadmium	7440-43-9	0.15	0.04	В	mg/kg	SW846 6010
Chromium	7440-47-3	5.6	0.09		mg/kg	SW846 6010
Lead	7439-92-1	14.4	0.15		mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	mg/kg	SW846 7470
Selenium	7782-49-2	0.33	0.33	U	mg/kg	SW846 6010
Silver	7440 - 22-4	0.21	0.21	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS						
1.2.4.5-Tetrachlorobenzene	95-94-3	370	370	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	Ū	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	Ü	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	Ū	ug/kg	SW846 8270



Location: SB106
Sample ID: 10S
COE Sample ID:
Date Collected: SB105 **Depth:** 15.5-16.0 FH010-SB105/12-16-96/15.5-16.0 12/16/96 10SB105

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol 2-Methylnaphthalene	95-57-8 91-57-6	370 370	370 370	U		ug/kg	SW846 8270
2-Methylphenol	91-37-6 95-48-7	370 370	370 370	U U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg ug/kg	SW846 8270 SW846 8270
2-Nitrophenol	88-75-5	370	370	Ü		ug/kg ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	730	730	Ü		ug/kg ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	Ŭ		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	Ŭ		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	370	370	Ŭ		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	370	370	Ū		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	370	370	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	Ü		ug/kg	SW846 8270
Benzyi Alcohol	100-51-6	370	370 3 7 0	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether Bis(2-ethylhexyl)phthalate	111-44-4 117-81-7	370 370	370 370	U U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370 370	370 370	U		ug/kg ug/kg	SW846 8270 SW846 8270
Chrysene	218-01-9	370	370 370	Ŭ		ug/kg ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	Ū		ug/kg ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	Ü		ug/kg ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	Ü		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	Ū		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	Ü		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86 -7 3-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	Ü		ug/kg	SW846 8270
Phenanthrene Phenal	85-01-8	370	370 370	U		ug/kg	SW846 8270
Phenol	108-95-2	370	370	U		ug/kg	SW846 8270
Pyrene Pyridina	129-00-0	370 370	370 370	U U		ug/kg	SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg ug/kg	SW846 8260
1,1,1-1110HOLOGHAN	/1-55-0	U	U	U	U	ug/Kg	5 W 0-10 0200



Location: SB106 Sample ID: 105 COE Sample ID: Date Collected: 10SB105 **Depth:** 15.5-16.0 **ID:** FH010-SB105/12-16-96/15.5-16.0 **i:** 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260 SW846 8260
1,3-Dichloropropane	142-28-9 106-46-7	6 6	6 6	U U	U U	ug/kg	SW846 8260 SW846 8260
1,4-Dichlorobenzene	594-20-7	6	6	U	U	ug/kg	
2,2-Dichloropropane 2-Butanone	78-93-3	6	6	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
2-Butanone 2-Chlorotoluene	95-49-8	6	6	Ü	Ŭ	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	Ŭ	ug/kg ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	Ü	ug/kg ug/kg	SW846 8260
Acetone	67 - 64 - 1	9	6	В	U	ug/kg ug/kg	SW846 8260
Benzene	71-43-2	6	6	Ü	U	ug/kg ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ŭ	Ü	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	Ü	Ŭ	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	Ū	Ū	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	Ū	Ū	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	.U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	2	6	JB	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	, U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	4	6	J	J	ug/kg	SW846 8260
Trichloroethene Trichlorofluoromethane	79-01-6 75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-69-4 75-01-4	6 6	6 6	U U	U U	ug/kg	SW846 8260
vinyi Cilioride	/)~01-4	O	О	U	U	ug/kg	SW846 8260



 Location:
 SB106

 Sample ID:
 10SB106
 Depth:
 25.0-25.5

 COE Sample ID:
 FH010-SB106/12-16-96/25.0-25.5

 Date Collected:
 12/16/96

NORCANICS 11.4 0.35	Parameter	CAS Number	Result	Detection Limit	Lab Qual 1	Data Qual	<u>Units</u>	Method
Aramic	INORGANICS							
Barium		7440-38-2	11.4	0.35			mg/kg	SW846 6010
Cadmium	Barium	7440-39-3						
Chromism	Cadmium	7440-43-9	0.08		В			
Laad	Chromium							
Selentum 782-97-6	Lead	7439-92-1	5.4	0.15				SW846 6010
Selerium 7782-9-2 0.32 0.32 U mgkg SW846 6010 SEMIVOLATILE ORGANICS 1.24.5-Trianchioroberuzene 95-94-3 350 350 U ugkg SW846 8270 1.2.4-Trichioroberuzene 95-94-3 350 350 U ugkg SW846 8270 1.2.Dichioroberuzene 95-90-1 350 350 U ugkg SW846 8270 1.3.Dichioroberuzene 106-66-7 350 350 U ugkg SW846 8270 1.4.Dichioroberuzene 106-66-1 350 350 U ugkg SW846 8270 1.4.Dichioroberuzene 106-66-1 350 350 U ugkg SW846 8270 2.4.S-Trichiorophenol 25-35-4 1700 1700 U ugkg SW846 8270 2.4.Diriumphophenol 105-67-9 350 350 U ugkg SW846 8270 2.4.Diriumphophenol 110-42 350 350 U ugkg SW846 8270 2.4.Diriumphophenol 151-8-7	Mercury	7439-97-6	0.04	0.04	U			SW846 7470
Silver	Selenium	7782-49-2	0.32	0.32	U			
1.2.4.Frierhofrobenzeme	Silver	7440-22-4	0.2	0.2	U			SW846 6010
1.2.4.Frierhofrobenzene	SEMINOLATILE ODGANICS							
1.2.4-Tricklorobenzzene		95-94-3	350	350	TT		110/kg	SW246 2270
1,2-Dichlorobenzene								
1.3-Dichlorobenzene								
1.4-Dichlorobenzene	· ·							
128-09/bist (-shloropopane) 108-60-1 350 350 U ugkg SW846 S270 2.4.6-Trichlorophenol 88-06-2 350 350 U ugkg SW846 S270 2.4.6-Trichlorophenol 120-83-2 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 105-67-9 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 105-67-9 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 121-82-5 1700 1700 U ugkg SW846 S270 2.4-Dinhorophenol 121-14-2 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 121-14-2 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 151-82-5 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 91-58-7 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 91-58-7 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 91-58-7 350 350 U ugkg SW846 S270 2.4-Dinhorophenol 91-57-6 350 350 U ugkg SW846 S270 2.4-Methylphenol 91-57-6 350 350 U ugkg SW846 S270 2.4-Methylphenol 93-57-8 350 350 U ugkg SW846 S270 2.4-Methylphenol 93-58-7 350 350 U ugkg SW846 S270 2.4-Methylphenol 93-59-7 350 350 U ugkg SW846 S270 3.3-Dichlorobenzidine 91-94-1 700 700 U ugkg SW846 S270 3.3-Dichlorobenzidine 91-94-1 700 700 U ugkg SW846 S270 3.3-Dichlorobenzidine 99-09-2 7700 7700 U ugkg SW846 S270 4.4-Dinhoro-Creatol 33-452-1 7700 7700 U ugkg SW846 S270 4.4-Dinhoro-methylphenol 99-50-7 350 350 U ugkg SW846 S270 4.4-Dinhoro-methylphenol 99-50-7 350 350 U ugkg SW846 S270 4.4-Dinhoro-methylphenol 106-44-5 350 350 U ugkg SW846 S270 4.4-Dinhoro-methylphenol 1	•							
2.4.5-Trichlorophenol 95.95-4 1700 1700 U uykg SW846 8270 2.4-Dirichophenol 120.83-2 33.0 35.0 U uykg SW846 8270 2.4-Dirichophenol 102.83-2 33.0 35.0 U uykg SW846 8270 2.4-Dirichophenol 103.63-2 33.0 35.0 U uykg SW846 8270 2.4-Dirichophenol 103.63-2 33.0 35.0 U uykg SW846 8270 2.4-Dirichophenol 121.14-2 33.0 35.0 U uykg SW846 8270 2.4-Diricholune 121.14-2 33.0 35.0 U uykg SW846 8270 2.4-Diricholune 606.20-2 33.0 35.0 U uykg SW846 8270 2.6-Dirintorolune 91.58-7 33.0 35.0 U uykg SW846 8270 2.6-Dirintorolune 91.58-7 33.0 35.0 U uykg SW846 8270 2.4-Dirityophenol 95.57-8 33.0 35.0 U uykg SW846 8270 2.4-Dirityophenol 95.54-7 33.0 35.0 U uykg SW846 8270 2.4-Dirityophenol 95.48-7 33.0 35.0 U uykg SW846 8270 2.4-Dirityophenol 88.75-5 33.0 35.0 U uykg SW846 8270 2.4-Dirityo-o-Cresol 33.4-52-1 1700 1700 U uykg SW846 8270 4.4-Dirityo-o-Cresol 33.4-52-1 1700 1700 U uykg SW846 8270 4.4-Dirityo-o-Cresol 33.4-52-1 1700 1700 U uykg SW846 8270 4.4-Dirityo-o-Cresol 33.4-52-1 1700 1700 U uykg SW846 8270 4.4-Dirityo-henryl-phenyl-ph								
2,4-6-Trichlorophenol 120-83-2 350 350 U								
2.4-Dichlorophenol 120-83-2 350 350 U ug/kg SW846 8270					_			
2.4-Dintrophenol	•							
2.4-Dinitroplenol 51-28-5 1700 1700 U ug/kg SW846 8270 2.4-Dinitrotoluene 121-14-2 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 606-20-2 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-58-7 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-58-7 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-57-6 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-57-6 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-57-6 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 88-75-6 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 88-75-5 350 350 U ug/kg SW846 8270 2.5-Dinitrotoluene 91-54-1 700 1700 U ug/kg SW846 8270 3.3-Diciliorobenzidine 91-54-1 700 700 U ug/kg SW846 8270 3.3-Diciliorobenzidine 91-54-1 700 700 U ug/kg SW846 8270 3.3-Diciliorobenzidine 91-54-1 700 1700 U ug/kg SW846 8270 4.5-Dinitroto-Cresol 534-52-1 1700 1700 U ug/kg SW846 8270 4.5-Dinitroto-Cresol 534-52-1 1700 1700 U ug/kg SW846 8270 4.5-Dinitroto-Cresol 534-52-1 1700 1700 U ug/kg SW846 8270 4.5-Dinitroto-Gresol 534-52-1 350 350 U ug/kg SW846 8270 4.5-Dinitroto-Gresol 59-50-7 350 350 U ug/kg SW846 8270 4.5-Dinitroto-3-methylphenol 59-50-7 350 350 U ug/kg SW846 8270 4.5-Dinitroto-3-methylphenol 106-47-8 350 350 U ug/kg SW846 8270 4.5-Dinitroto-3-methylphenol 106-47-8 350 350 U ug/kg SW846 8270 4.5-Dinitroto-106-106 1700 1700 U ug/kg SW846 8270 4.5-Dinitroto-106-106 1								
2.4-Dinitrotoluene 121-14-2 350 350 U ug/kg SW846 8270 2.6-Dinitrotoluen 606-20-2 350 350 U ug/kg SW846 8270 2.Chlorophenol 95-57-8 350 350 U ug/kg SW846 8270 2.Methylaphtalene 91-57-6 350 350 U ug/kg SW846 8270 2.Methylaphtalene 91-57-6 350 350 U ug/kg SW846 8270 2.Mitronilline 88-74-4 1700 1700 U ug/kg SW846 8270 2.Nitronilline 91-94-1 700 700 U ug/kg SW846 8270 3.7-Dichlorobenzidine 91-94-1 700 1700 U ug/kg SW846 8270 4-Bromophenyl-phenyl-plemyl Ether 101-55-3 350 350 U ug/kg SW846 8270 4-Chloroaniline 106-47-8 350 350 U ug/kg SW846 8270 4-Mitrophenol 106-47-8 350 350	•							
2.6-Dimitrotoluene 606-20-2 350 350 U ugke SW346 8270 2-Chlorophenol 91-58-7 350 350 U ugkg SW346 8270 2-Methylnaphthalene 91-57-6 350 350 U ugkg SW346 8270 2-Methylphenol 95-48-7 350 350 U ugkg SW346 8270 2-Nitrophienol 88-75-5 350 350 U ugkg SW346 8270 2-Nitrophienol 88-75-5 350 350 U ugkg SW346 8270 3-Nitroaniline 91-94-1 700 700 U ugkg SW346 8270 4-G-Dimitro-Cresol 534-52-1 1700 1700 U ugkg SW346 8270 4-Bromophenyl-phenyl-phenyl-Ether 101-53-3 350 350 U ugkg SW346 8270 4-Chlorophenyl-phenyl								
2-Chlorophenol 95-57-8 350 350 U ugkg SW346 8270 2-Methylnaphthalene 91-57-6 350 350 U ugkg SW346 8270 2-Methylnaphthalene 91-57-6 350 350 U ugkg SW346 8270 2-Methylphenol 95-48-7 350 350 U ugkg SW346 8270 2-Methylphenol 95-48-7 350 350 U ugkg SW346 8270 2-Nitrophenol 88-74-4 1700 1700 U ugkg SW346 8270 2-Nitrophenol 88-75-5 350 350 U ugkg SW346 8270 2-Nitrophenol 91-94-1 700 700 U ugkg SW346 8270 3-Nitrophenol 91-94-1 700 700 U ugkg SW346 8270 3-Nitroaniline 99-09-2 1700 1700 U ugkg SW346 8270 3-Nitroaniline 191-94-1 700 1700 U ugkg SW346 8270 4-G-Dinitro-Cresol 534-52-1 1700 1700 U ugkg SW346 8270 4-G-Dinitro-Cresol 534-52-1 1700 1700 U ugkg SW346 8270 4-Chloro-3-methylphenol 59-50-7 350 350 U ugkg SW346 8270 4-Chloro-3-methylphenol 106-47-8 350 350 U ugkg SW346 8270 4-Chloro-3-methylphenol 106-47-8 350 350 U ugkg SW346 8270 4-Chlorophenyl-phenylphe	•							
2-Chlorophenol 95-57-8 350 350 U ug/kg SW846 8270 2-Methylphenol 95-48-7 350 350 U ug/kg SW846 8270 2-Methylphenol 95-48-7 350 350 U ug/kg SW846 8270 2-Nitrophenol 88-75-5 350 350 U ug/kg SW846 8270 2-Nitrophenol 88-75-5 350 350 U ug/kg SW846 8270 3-3'-Dichlorobenzidine 91-94-1 700 700 U ug/kg SW846 8270 3-3'-Dichlorobenzidine 99-9-2 1700 1700 U ug/kg SW846 8270 4-G-Dimitro-o-Cresol 534-52-1 1700 1700 U ug/kg SW846 8270 4-Bromophenyl-phenyl-Ether 101-55-3 350 350 U ug/kg SW846 8270 4-Bromophenyl-phenyl-phenyl Ether 101-55-3 350 350 U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 350 350 U ug/kg SW846 8270 4-Chloro-3-methylphenol 106-47-8 350 350 U ug/kg SW846 8270 4-Chlorophenyl-phe	· ·							
2-Methylnaphthalene 91-57-6 350 350 U ug/kg SW846 8270 2-Methylphenol 95-48-7 350 350 U ug/kg SW846 8270 2-Nitroniline 88-74-4 1700 1700 U ug/kg SW846 8270 2-Nitrophenol 88-75-5 350 350 U ug/kg SW846 8270 3-Nitroniline 91-94-1 700 700 U ug/kg SW846 8270 3-Nitroniline 99-09-2 1700 1700 U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 350 350 U ug/kg SW846 8270 4-Chloro-miline 106-47-8 350 350 U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 350 350 U ug/kg SW846 8270 4-Methylphenol 106-44-5 350 350 U ug/kg SW846 8270 4-Nitrophenol 100-01-6 1700 1700 U								
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Benzo(k)fluoranthene 207-08-9 350 350 U ug/kg SW846 8270 Benzoic Acid 65-85-0 1700 1700 U ug/kg SW846 8270 Benzyl Alcohol 100-51-6 350 350 U ug/kg SW846 8270 Bis(2-chloroethoxy)methane 111-91-1 350 350 U ug/kg SW846 8270 Bis(2-chloroethyl)ether 111-44-4 350 350 U ug/kg SW846 8270 Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U ug/kg SW846 8270 Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenzo(a,h)anthracene 53-70-3 350 <	Benzo(g,h,i)perylene	191-24-2	350	350	U			SW846 8270
Benzyl Alcohol 100-51-6 350 350 U ug/kg SW846 8270 Bis(2-chloroethoxy)methane 111-91-1 350 350 U ug/kg SW846 8270 Bis(2-chloroethyl)ether 111-44-4 350 350 U ug/kg SW846 8270 Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U ug/kg SW846 8270 Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofitran 132-64-9 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350	Benzo(k)fluoranthene	207-08-9	350	350	U			SW846 8270
Bis(2-chloroethoxy)methane 111-91-1 350 350 U ug/kg SW846 8270 Bis(2-chloroethyl)ether 111-44-4 350 350 U ug/kg SW846 8270 Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U ug/kg SW846 8270 Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 132-64-9 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 <t< td=""><td>Benzoic Acid</td><td>65-85-0</td><td>1700</td><td>1700</td><td>U</td><td></td><td>ug/kg</td><td>SW846 8270</td></t<>	Benzoic Acid	65-85-0	1700	1700	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether 111-44-4 350 350 U ug/kg SW846 8270 Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U ug/kg SW846 8270 Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 <td>Benzyl Alcohol</td> <td>100-51-6</td> <td>350</td> <td>350</td> <td>U</td> <td></td> <td>ug/kg</td> <td>SW846 8270</td>	Benzyl Alcohol	100-51-6	350	350	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate 117-81-7 350 350 U ug/kg SW846 8270 Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U	Bis(2-chloroethoxy)methane	111-91-1	350	350	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate 85-68-7 350 350 U ug/kg SW846 8270 Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Bis(2-chloroethyl)ether	111-44-4	350	350	U		ug/kg	SW846 8270
Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U		ug/kg	SW846 8270
Chrysene 218-01-9 350 350 U ug/kg SW846 8270 Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Butyl Benzyl Phthalate	85-68-7	350	350	U			SW846 8270
Di-n-butyl Phthalate 84-74-2 350 350 U ug/kg SW846 8270 Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Chrysene	218-01-9	350	350	U			SW846 8270
Di-n-octyl Phthalate 117-84-0 350 350 U ug/kg SW846 8270 Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Di-n-butyl Phthalate	84-74-2	350	350	U			SW846 8270
Dibenz(a,h)anthracene 53-70-3 350 350 U ug/kg SW846 8270 Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270		117-84-0	350	350	U			SW846 8270
Dibenzofuran 132-64-9 350 350 U ug/kg SW846 8270 Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Dibenz(a,h)anthracene	53-70-3	350	350	U			SW846 8270
Diethyl Phthalate 84-66-2 350 350 U ug/kg SW846 8270 Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Dibenzofuran	132-64-9	350	350	U			SW846 8270
Dimethyl Phthalate 131-11-3 350 350 U ug/kg SW846 8270 Fluoranthene 206-44-0 350 350 U ug/kg SW846 8270 Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Diethyl Phthalate	84-66-2	350	350	U			SW846 8270
Fluorene 86-73-7 350 350 U ug/kg SW846 8270	Dimethyl Phthalate	131-11-3		350				SW846 8270
	Fluoranthene		350	350	U		ug/kg	SW846 8270
	Fluorene	86-73-7	350	350				SW846 8270
	Hexachlorobenzene	118-74-1	350	350			ug/kg	SW846 8270



Location: SB106
Sample ID: 108
COE Sample ID:
Date Collected: BB106 **Depth:** 25.0-25.5 FH010-SB106/12-16-96/25.0-25.5 12/16/96 10SB106

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	350	350	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	Ū		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	Ū		ug/kg	SW846 8270
Isophorone	78-59-1	350	350	Ŭ		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	Ŭ		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	Ü		ug/kg ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	Ü			SW846 8270
Nitrobenzene	98-95-3	350	350	U		ug/kg	
						ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U		ug/kg	SW846 8270
Phenol	108-95-2	350	350	U		ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U		ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	Ū	Ū	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	Ū	Ū	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	Ŭ	Ü	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	Ū	Ŭ		SW846 8260
	120-82-1	5	5	U	U	ug/kg	
1,2,4-Trichlorobenzene						ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	Ü	Ü	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	Ŭ	Ü	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	Ü	Ŭ	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U		
						ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	Ū	ug/kg	SW846 8260
Acetone	67-64-1	17	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5	\mathbf{U}	U.	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97- 5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	Ũ	Ū	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	Ü	Ü		SW846 8260
Chloroethane	75-00-3	5	5	U	Ü	ug/kg	
		5	5			ug/kg	SW846 8260
Chloroform	67-66-3			U	Ū	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	. 5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	14	5		Ū	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	Ŭ	ug/kg	SW846 8260
	20.010	2	•	C	O	"E NE	D 11 0 10 0 200

Sample ID: 1
COE Sample ID: 10SB106 **Depth:** 25.0-25.5 **D:** FH010-SB106/12-16-96/25.0-25.5

Date Collected: 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	\mathbf{U}	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB107

Sample ID: 1
COE Sample ID:
Date Collected: V101 **Depth:** NA FH010-GW101/10-30-98 10GW101

10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	23.4	2.9			ug/l	SW846 6010
Barium	7440-39-3	506	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	7.6	0.3			ug/l	SW846 6010
Chromium	7440-47-3	39.2	0.7			ug/l	SW846 6010
Lead	7439-92-1	248	1.5	N*		ug/l	SW846 6010
Mercury	7439-97-6	0.47	0.1	N		ug/l	SW846 6010
Selenium	7782-49-2	2.2	2.2	WNU		ug/l	SW846 6010
Silver	7440-22-4	1.4	1.4	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1.2.4-Trichlorobenzene	120-82-1	10	10	Ŭ		ug/l	SW846 8270
1.2-Dichlorobenzene	95-50-1	10	10	Ŭ		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	Ŭ		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ŭ		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	Ŭ		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ū		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ŭ		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	Ū		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	Ū		ug/l	SW846 8270
2.4-Dinitrotoluene	121-14-2	10	10	Ü		ug/l	SW846 8270
2.6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	2	10	J		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/i	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3.3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270

Location: SB107 Sample ID: 10GW101 GW101 **Depth:** NA FH010-GW101/10-30-98 10/30/98 COE Sample ID: Date Collected:

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	10	10	u U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/i	SW846 8270
Benzoic Acid	65-85-0	6	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	4	10	JВ		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/i	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	2	10	J		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	6	10	J		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	\mathbf{U}		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	10	10	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	·U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	2	5	J	J	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	2	5	J	J	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	. 5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106 - 93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	2	5	J	J	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	25	5			ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	· U	U	ug/l	SW846 8260

Sample ID: 1
COE Sample ID: 10GW101 **Depth:** NA **D:** FH010-GW101/10-30-98 Depth: NA

Date Collected: 10/30/98

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	6	5		U	ug/l	SW846 8260
Benzene	71-43-2	3	5	J	J	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	84	5			ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	4	5	J	J	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	4	5	J	J	ug/l	SW846 8260
n-propylbenzene	103-65-1	7	5			ug/l	SW846 8260
Naphthalene	91-20-3	59	5			ug/l	SW846 8260
o-Xylene	95-47-6	2	5	J	J	ug/l	SW846 8260
p-Isopropyltoluene	99 - 87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	3	5	J	J	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	2	5	J	J	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	Ū	U	ug/i	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	Ü	U	ug/i	SW846 8260
Vinyl Chloride	75-01-4	26	5	_	~	ug/l	SW846 8260

Location: SB107 Sample ID: 108 SB121 **Depth:** 0.0-2.0 FH010-SB121/10-30-98/0.0-2.0 10/30/98 10SB121 COE Sample ID:
Date Collected:

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	5.4	0.2			mg/kg	SW846 6010
Barium	7440-39-3	30.2	0.15			mg/kg	SW846 6010
Cadmium	7440-43-9	0.1	0.03	В	В	mg/kg	SW846 6010
Chromium	7440-47-3	6.8	0.09			mg/kg	SW846 6010
Lead	7439-92-1	7.9	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.05	0.04			mg/kg	SW846 6010
Selenium	7782-49-2	0.24	0.24	WNU	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.14	0.14	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	360	360	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	360	360	Ū	Ŭ	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	360	360	Ū	Ū	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	360	360	Ŭ	Ŭ	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	360	360	Ū	Ü	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	Ū	Ŭ	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1800	1800	Ŭ	Ŭ	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	Ŭ	Ŭ	ug/kg	SW846 8270

Location: SB107
Sample ID: 10SB121
COE Sample ID: FH0
Date Collected: 10/30/ SB121 **Depth:** 0.0-2.0 FH010-SB121/10-30-98/0.0-2.0 10/30/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
2,4-Dichlorophenol	120-83-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	U	\mathbf{U}	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	360	360	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	360	360	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	720	720	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	\mathbf{U}	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	360	360	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	360	360	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	360	360	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	U	\mathbf{U}_{-}	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	\mathbf{U}	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207 - 08-9	360	360	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	360	360	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	360	360	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	\mathbf{U}	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	360	360	U	U	ug/kg	SW846 8270
Phenol	108-95-2	360	360	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	360	360	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	360	360	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U		ug/ka	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U		ug/kg ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	Ŭ		ug/kg ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U		ug/kg ug/kg	SW846 8260
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Location: SB107 Sample ID: 105 COE Sample ID: Date Collected: SB121 **Depth:** 0.0-2.0 FH010-SB121/10-30-98/0.0-2.0 10/30/98 10SB121

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
1,1-Dichloroethane	75-34-3	6	6	U		ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U		ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U		ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U		ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U		ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U		ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U		ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U		ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U		ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U		ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U		ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U		ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U		ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U		ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U		ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U		ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6.	U		ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U		ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	Ū		ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	Ū		ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	Ü		ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	Ü		ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	Ü		ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	Ü		ug/kg	SW846 8260
Acetone	67-64-1	6	6	Ŭ		ug/kg	SW846 8260
Benzene	71-43-2	6	6	Ü		ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	Ŭ		ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	Ŭ		ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	Ŭ		ug/kg	SW846 8260
Bromoform	75-25-2	6	6	Ŭ		ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	. U		ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U		ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U		ug/kg ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	Ü		ug/kg ug/kg	SW846 8260
Chloroform	67-66-3	6	6	Ü		ug/kg ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	Ŭ		ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U		ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U		ug/kg ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U		ug/kg ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U		ug/kg ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U		ug/kg ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	Ŭ		ug/kg ug/kg	SW846 8260
	13-302-07	6	6	U		ug/kg ug/kg	SW846 8260
m,p-Xylene Mathydana Chlorida	75-09-2	6	6	U			SW846 8260
Methylene Chloride	104-51-8	6	6	U	*,-	ug/kg	SW846 8260
n-Butylbenzene		6	6	U		ug/kg	
n-propylbenzene Naphthalene	103-65-1 91-20-3	_	-	U		ug/kg ug/kg	SW846 8260 SW846 8260
		6	6	U			SW846 8260
o-Xylene	95-47-6	6	6			ug/kg	
p-Isopropyltoluene	99-87-6	6	6	U		ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U		ug/kg	SW846 8260
Styrene	100-42-5	6	6	U		ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U		ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U		ug/kg	SW846 8260
Toluene	108-88-3	6	6	U		ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U		ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U		ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U		ug/kg	SW846 8260

Location: SB107 Sample ID: 10S COE Sample ID: Date Collected: 10SB122 **Depth:** 2.0-4.0 **Depth:** 2.0-4.0 **Depth:** 2.0-4.0 10/30/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	4.8	0.2			mg/kg	SW846 6010
Barium	7440-39-3	20.2	0.14			mg/kg	SW846 6010
Cadmium	7440-43-9	0.1	0.03	В	В	mg/kg	SW846 6010
Chromium	7440-47-3	4	0.09		В	mg/kg	SW846 6010
Lead	7439-92-1	2.3	0.15			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	1.1	1.1	WNU		mg/kg	SW846 6010
Silver	7440-22-4	0.13	0.13	U	Ü	mg/kg	SW846 6010
		*****	*****	•			0.1.010.0010
SEMIVOLATILE ORGANICS							
	95-94-3	260	260	U	U		011/04/ 02/70
1,2,4,5-Tetrachlorobenzene 1,2,4-Trichlorobenzene	120-82-1	360 360	360 360	U	U	ug/kg ug/kg	SW846 8270 SW846 8270
1,2-Dichlorobenzene	95-50-1	360	360	U	U	ug/kg ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	360	360	U	U	ug/kg ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	360	360	Ŭ	U	ug/kg ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	U	Ŭ	ug/kg ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	Ŭ	ug/kg ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	Ü	Ü	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	360	360	Ü	Ü	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	Ü	Ŭ	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	Ü	ug/kg ug/kg	SW846 8270
2.4-Dinitrotoluene	121-14-2	360	360	Ŭ	Ü	ug/kg ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	360	360	Ŭ	Ŭ	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	Ü	Ü	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	Ü	Ü	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	Ŭ	Ü	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	Ü	Ü	ug/kg ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	Ü	Ü	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	Ü	Ü	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	720	720	Ü	Ü	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	Ŭ	Ŭ	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	Ŭ	Ü	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	360	360	Ŭ	Ŭ	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	360	360	Ŭ	Ŭ	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	360	360	Ū	Ū	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	Ū	Ū	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	Ū	Ū	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	Ū	Ü	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U.	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	360	360	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	360	360	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	360	360	U	U	ug/kg	SW846 8270



Location: SB107 Sample ID: 108 COE Sample ID: Date Collected: 10SB122 **Depth:** 2.0-4.0 **ID:** FH010-SB122/10-30-98/2.0-4.0 **d:** 10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	Ū	Ū	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	360	360	U	U	ug/kg	SW846 8270
Phenol	108-95-2	360	360	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	360	360	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	360	360	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1.2.3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	Ü	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	Ü	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ü	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	Ū	Ū	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	Ū	Ū	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	Ü	Ŭ	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ü	Ŭ	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ŭ	Ŭ	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	Ü	Ü	ug/kg	SW846 8260
Acetone	67-64-1	5	5	Ü	Ü	ug/kg	SW846 8260
Benzene	71-43-2	5	5	Ü	Ŭ	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	Ü	Ü	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	Ü	Ü	ug/kg ug/kg	SW846 8260
Bromoform	75-25-2	5	5	Ŭ	U	ug/kg ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	Ü	U	ug/kg ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	Ü	ug/kg ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg ug/kg	SW846 8260
Chloroform	67-66-3	5	5	Ŭ	Ü		SW846 8260
Chloromethane	74-87-3	5	5	Ü	Ŭ	ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5 5	U	U	ug/kg ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5 5	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
Dichlorodifluoromethane	74-93-3 75-71-8	5 5	5 5	U			
		5 5	5		U	ug/kg	SW846 8260
Ethylbenzene Havachlorobutadiana	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8			U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	JВ	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Sample ID: 10SB122 COE Sample ID: FH

122 **Depth:** 2.0-4.0 FH010-SB122/10-30-98/2.0-4.0

Date Collected:

10/30/98

CAS Number Result Detection Limit Lab Qual Data Qual <u>Units</u> Method <u>Parameter</u> 5 5 5 U U SW846 8260 n-propylbenzene 103-65-1 ug/kg Naphthalene 91-20-3 U U ug/kg SW846 8260 95-47-6 5 5 U U SW846 8260 o-Xylene ug/kg p-Isopropyltoluene 5 ug/kg 99-87-6 5 U U SW846 8260 5 5 U SW846 8260 135-98-8 \mathbf{U} sec-Butylbenzene ug/kg ug/kg SW846 8260 Styrene 100-42-5 U U 5 U U SW846 8260 tert-Butylbenzene 98-06-6 5 5 5 5 ug/kg 127-18-4 5 U U SW846 8260 Tetrachloroethene ug/kg 108-88-3 5 U U ug/kg SW846 8260 Toluene 79-01-6 U U SW846 8260 Trichloroethene ug/kg Trichlorofluoromethane 75-69-4 5 5 U U SW846 8260 ug/kg

5

U

U

ug/kg

SW846 8260

Location: SB107

Sample ID: 10SB123

Depth: 4.0-6.0

75-01-4

COE Sample ID:

Vinyl Chloride

FH010-SB123/10-30-98/4.0-6.0

Date Collected: 10/30/98

NORGANICS Arsenic	Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Assenic	INORGANICS							
Cadmium		7440-38-2	3.8	0.21			mg/kg	SW846 6010
Chromium	Barium	7440-39-3	37	0.15			mg/kg	SW846 6010
Chromium	Cadmium	7440-43-9	0.09	0.04	В	В	mg/kg	SW846 6010
Lead 7439-97-6	Chromium	7440-47-3	4.9	0.09				SW846 6010
Mercury	Lead	7439-92-1	3.6	0.16				SW846 6010
Selenium 7782-49-2		7439-97-6	0.04	0.04	U	U		SW846 6010
Silver					WNU	UJ		SW846 6010
1,2,4,5-Tetrachlorobenzene		7440-22-4		0.14	U	U		SW846 6010
1,2,4,5-Tetrachlorobenzene	SEMIVOLATILE ORGANICS							
1,2,4-Trichlorobenzene		95-94-3	370	370	IJ	IJ	ug/kg	SW846 8270
1,2-Dichlorobenzene 95-50-1 370 370 U U ug/kg SW846 8270 1,3-Dichlorobenzene 541-73-1 370 370 U U ug/kg SW846 8270 2,2-loxybis(1-chloropenzene 106-46-7 370 370 U U ug/kg SW846 8270 2,2-loxybis(1-chloropenzene) 108-60-1 370 370 U U ug/kg SW846 8270 2,4,5-Trichlorophenol 95-95-4 1800 1800 U U ug/kg SW846 8270 2,4,5-Trichlorophenol 95-95-4 1800 1800 U U ug/kg SW846 8270 2,4,5-Trichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dimethylphenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dimethylphenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dimitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2,6-Dimitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 88-75-5 370 370 U U ug/kg SW846 8270 2-Methylphenol 88-75-5 370 370 U U ug/kg SW846 8270 3-Mitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3-Mitrophenol 91-94-1 740 740 U ug/kg SW846 8270 4-Chloro								
1,3-Dichlorobenzene	* *							
1,4-Dichlorobenzene	,							
2,2'-oxybis(1-chloropropane) 108-60-1 370 370 U U ug/kg SW846 8270 2,4,5-Trichlorophenol 95-95-4 1800 1800 U U ug/kg SW846 8270 2,4,5-Trichlorophenol 88-06-2 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dirichlorophenol 51-28-5 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dirichlorophenol 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dirichlorophenol 91-58-7 370 370 U U ug/kg SW846 8270 2-Chloronaphthalene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Mitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 2-Mitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3-Nitrophenol 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitrophenol 91-94-1 740 740 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 95-50-7 370 370 U U ug/kg SW846 8270 4-Chloro-a-methylphenol 95-50-7 370 370 U U ug/kg SW846 8270 4-Chloro-a-methylphenol 106-47-8 370 370 U U ug/kg SW846 8270 4-Chloro-a-methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Chloro-a-methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Chloro-a-methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Nitrophenol 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol					-	-		
2,4,5-Trichlorophenol 95-95-4 1800 1800 U U ug/kg SW846 8270 2,4,6-Trichlorophenol 88-06-2 370 370 U U ug/kg SW846 8270 2,4-Dimethylphenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dinitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2,4-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,4-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,4-Dinitrotoluene 91-58-8 370 370 U								
2,4,6-Trichlorophenol 88-06-2 370 370 U U ug/kg SW846 8270 2,4-Dichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U								
2,4-Dichlorophenol 120-83-2 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dimitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2-Chlorophenol 91-58-7 370 370 U U ug/kg SW846 8270 2-Methylaphthalene 91-57-8 370 370 U U ug/kg SW846 8270 2-Methylaphthalene 91-57-8 370 370 U U ug/kg SW846 8270 2-Methylaphthalene 91-54-7 370 370 U U ug/kg SW846 8270 2-Methylaphthalene 91-54-8-7 370 370 U								
2,4-Dimethylphenol 105-67-9 370 370 U U ug/kg SW846 8270 2,4-Dinitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 91-58-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370					_	_		
2,4-Dinitrophenol 51-28-5 1800 1800 U U ug/kg SW846 8270 2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2-Chloropaphthalene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 3-Nitroaniline 91-94-1 740 740 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 370								
2,4-Dinitrotoluene 121-14-2 370 370 U U ug/kg SW846 8270 2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2-Chloronaphthalene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U ug/kg SW846 8270 3,Nitroaniline 99-09-2 1800 1800 U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
2,6-Dinitrotoluene 606-20-2 370 370 U U ug/kg SW846 8270 2-Chloronaphthalene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloroaniline 106-47-8 370								
2-Chloronaphthalene 91-58-7 370 370 U U ug/kg SW846 8270 2-Chlorophenol 95-57-8 370 370 U U ug/kg SW846 8270 2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Methylphenol 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitroaniline 88-75-5 370 370 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 2-Nitrophenol 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4-6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chloro-iline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitrophenol 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol	•							
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2-Methylnaphthalene 91-57-6 370 370 U U ug/kg SW846 8270 2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4,6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5								
2-Methylphenol 95-48-7 370 370 U U ug/kg SW846 8270 2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4,6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 106-47-8 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6								
2-Nitroaniline 88-74-4 1800 1800 U U ug/kg SW846 8270 2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4,6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-Chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chloroaniline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phe								
2-Nitrophenol 88-75-5 370 370 U U ug/kg SW846 8270 3,3'-Dichlorobenzidine 91-94-1 740 740 U U ug/kg SW846 8270 3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4,6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chloroaniline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitroaniline 100-02-7								
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3-Nitroaniline 99-09-2 1800 1800 U U ug/kg SW846 8270 4,6-Dinitro-o-Cresol 534-52-1 1800 1800 U U ug/kg SW846 8270 4-Bromophenyl-phenyl Ether 101-55-3 370 370 U U ug/kg SW846 8270 4-chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chloroaniline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270					-	-		
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4-chloro-3-methylphenol 59-50-7 370 370 U U ug/kg SW846 8270 4-Chloroaniline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270					-			
4-Chloroaniline 106-47-8 370 370 U U ug/kg SW846 8270 4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270								
4-Chlorophenyl-phenylether 7005-72-3 370 370 U U ug/kg SW846 8270 4-Methylphenol 106-44-5 370 370 U U ug/kg SW846 8270 4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270					_	_		
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4-Nitroaniline 100-01-6 1800 1800 U U ug/kg SW846 8270 4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270								
4-Nitrophenol 100-02-7 1800 1800 U U ug/kg SW846 8270								
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Location: SB107
Sample ID: 10SB123
COE Sample ID: FH0
Date Collected: 10/30/9 SB123 **Depth:** 4.0-6.0 FH010-SB123/10-30-98/4.0-6.0 10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	370	370	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U	\mathbf{U}	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	3 7 0	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	370	370	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	Ü	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene Dibenzofuran	53-70-3 132-64-9	370	370	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370 370	370 370	U U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370 370	370 370	U	U U	ug/kg	SW846 8270
Fluoranthene	206-44-0			U		ug/kg	SW846 8270
Fluorene	86-73-7	370 370	370 370	U	U U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370 370	370 370	U	Ü	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370 370	370 370	U	Ü	ug/kg	SW846 8270
Hexachlorocyclopentadiene Hexachlorocyclopentadiene	77-47-4	370	370 370	U	Ŭ	ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370 370	U	Ü	ug/kg ug/kg	SW846 8270 SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U	U	ug/kg ug/kg	SW846 8270
Isophorone	78-59-1	370 370	370 370	U	Ü	ug/kg ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U	Ü	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	Ü	Ü	ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	Ü	Ŭ	ug/kg ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	Ü	Ü	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	Ŭ	Ŭ	ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	Ŭ	Ŭ	ug/kg	SW846 8270
Phenol	108-95-2	370	370	Ŭ	Ŭ	ug/kg	SW846 8270
Pyrene	129-00-0	370	370	Ŭ	Ŭ	ug/kg	SW846 8270
Pyridine	110-86-1	370	370	Ū	Ü	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	Ū	Ū	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	Ū	Ū	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	Ū	Ū	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U .	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260

Sample ID: 10SB123 **Depth:** 4.0-6.0 FH010-SB123/10-30-98/4.0-6.0 10/30/98 COE Sample ID: Date Collected:

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	Ŭ	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	1 24-48- 1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	JВ	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	Ū	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	· U	Ü	ug/kg	SW846 8260
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Location: SB107 Sample ID: 108 COE Sample ID: Date Collected: SB124 **Depth:** 6.0-8.0 FH010-SB124/10-30-98/6.0-8.0 10/30/98 10SB124

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	3.7	0.2			mg/kg	SW846 6010
Barium	7440-39-3	53.3	0.14			mg/kg	SW846 6010
Cadmium	7440-43-9	0.08	0.03	В	В	mg/kg	SW846 6010
Chromium	7440-47-3	5.6	0.09			mg/kg	SW846 6010
Lead	7439-92-1	5.5	0.15			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	1.2	1.2	WNU	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.13	0.13	\mathbf{U}	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	Ū .	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	Ū	Ū	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	Ü	Ü	ug/kg	SW846 8270



Location: SB107 Sample ID: 103 COE Sample ID: Date Collected: 10SB124 **Depth:** 6.0-8.0 **D:** FH010-SB124/10-30-98/6.0-8.0 **:** 10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	690	690	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	\mathbf{U}	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyi Alcohol	100-51-6	350	350	U	U ,	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	\mathbf{U}	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	\mathbf{U}	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	\mathbf{U}	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	.JU	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS	(20.0)	_	_			_	
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260

Location: SB107 Sample ID: 108 COE Sample ID: Date Collected: SB124 **Depth:** 6.0-8.0 FH010-SB124/10-30-98/6.0-8.0 10/30/98 10SB124

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	\mathbf{U}	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	12	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U.	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	Ü	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	ЈВ	Ü	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	. 6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB107
Sample ID: 105
COE Sample ID:
Date Collected: 10SB125

125 **Depth:** 8.0-12.0 FH010-SB125/10-30-98/8.0-12.0

10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
DIOD GANGG							
<u>INORGANICS</u>							
Arsenic	7440-38-2	3.1	0.22			mg/kg	SW846 6010
Barium	7440-39-3	33.8	0.16			mg/kg	SW846 6010
Cadmium	7440-43-9	0.04	0.04	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	5.6	0.1	· ·	•	mg/kg	SW846 6010
Lead	7439-92-1	5.8	0.17				SW846 6010
					**	mg/kg	
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.26	0.26	WNU		mg/kg	SW846 6010
Silver	7440-22-4	0.15	0.15	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	44	390	J	J	ug/kg ug/kg	SW846 8270
				_	_		
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	Ū	Ū	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	Ü	Ŭ		SW846 8270
						ug/kg	
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	Ū	Ū	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	Ü	Ü	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	Ū	Ū	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	Ü	Ü	ug/kg ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	Ū	Ŭ	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	Ü	Ü		SW846 8270
` '						ug/kg	
Benzo(a)pyrene	50-32-8	390	390	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	220	390	J	J	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	Ü	Ŭ	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	Ü	U		
						ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U	U	ug/kg ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U		
Texacilloi openzene	110-/4-1	370	390	U	U	ug/kg	SW846 8270

SB125 **Depth:** 8.0-12.0 FH010-SB125/10-30-98/8.0-12.0 10/30/98 Sample ID: 1
COE Sample ID:
Date Collected: 10SB125

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	Ū	Ū	ug/kg	SW846.8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	Ū	Ŭ	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	Ū	Ŭ	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	Ŭ	Ŭ	ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	Ŭ	Ŭ	ug/kg ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	Ŭ	Ü	ug/kg ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	Ü	Ü	ug/kg	SW846 8270
Phenoi	108-95-2	390	390	U	Ü	ug/kg ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U	Ü	ug/kg ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U		SW846 8270
ryndnie	110-80-1	390	390	U	U	ug/kg	3 W 840 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	Ū	Ū	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	. U	Ū	ug/kg ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	Ü	U	ug/kg ug/kg	SW846 8260
1,2-Dichloroperopane	78-87-5	6	6	Ü	· U		SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	
				U		ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6		U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	Ū	Ū	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	2	6	J	J	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591 - 78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	9	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	2	6	J	J	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	Ū	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	Ŭ	Ŭ	ug/kg	SW846 8260
Chloromethane	74 -87- 3	6	6	Ü	Ŭ.	ug/kg ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	Ŭ	Ü	ug/kg ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	Ü	U	ug/kg ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U		
	98-82-8	6	6			ug/kg	SW846 8260
Isopropyl Benzene				U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Sample ID: 10SB125 **Depth:** 8.0-12.0

COE Sample ID: Date Collected:

FH010-SB125/10-30-98/8.0-12.0

10/30/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	2	6	J	J	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	. 6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U -	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB107
Sample ID: 10SB126
COE Sample ID: FH0

126 **Depth:** 12.0-14.2 FH010-SB126/10-30-98/12.0-14.2

Date Collected:

10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	7.5	0.22			mg/kg	SW846 6010
Barium	7440-39-3	50	0.16			mg/kg	SW846 6010
Cadmium	7440-43-9	2.2	0.04			mg/kg	SW846 6010
Chromium	7440-47-3	11.5	0.1			mg/kg	SW846 6010
Lead	7439-92-1	99.7	0.17			mg/kg	SW846 6010
Mercury	7439-97-6	0.07	0.04			mg/kg	SW846 6010
Selenium	7782-49-2	1.3	1.3	WNU	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.15	0.15	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	. U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	880	390	•		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	590	390			ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91 - 94-1	780	780	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	58	390	J	J	ug/kg	SW846 8270

Location: SB107 Sample ID: 10S COE Sample ID: Date Collected: 10SB126 **Depth:** 12.0-14.2 **Depth:** 12.0-14.2 **Depth:** 10/30/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2600	390			ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	200	390	J	J	ug/kg	SW846 8270
Di-n-butyl Phthalate .	84-74-2	940	390			ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	54	390	J	J	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	180	390	J	J	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	1000	390			ug/kg	SW846 8270
Naphthalene	91-20-3	2400	390			ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	680	390			ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS			_			_	
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	Ū	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	Ū	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U ·	Ü	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2 96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane 1,2-Dibromoethane	106-93-4	6	6 6	U	U	ug/kg	SW846 8260
1,2-Dioromoetnane 1,2-Dichlorobenzene	95-50-1	6 6	6	U U	U U	ug/kg	SW846 8260 SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	Ü	ug/kg	SW846 8260 SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	Ü	ug/kg	
1,2-Dichloroptopane 1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	Ŭ	U	ug/kg ug/kg	SW846 8260 SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg ug/kg	SW846 8260 SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	4	6	J	J	ug/kg ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	Ü	U	ug/kg ug/kg	SW846 8260
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Location: SB107

Sample ID: 1
COE Sample ID:
Date Collected: 10SB126 **Depth:** 12.0-14.2 FH010-SB126/10-30-98/12.0-14.2 10/30/98

Parameter	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	17	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	\mathbf{U}	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	180	6			ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	86	6			ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	В	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	1400	780	D	D	ug/kg	SW846 8260
n-propylbenzene	103 - 65-1	210	6			ug/kg	SW846 8260
o-Xylene	95-47-6	4	6	J	J	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	1100	780	D	D	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	17	6			ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: NA
Sample ID: ER025
COE Sample ID: F
Date Collected: 11/ 025 **Depth:** NA FH010-ER025/11-16-96 11/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>						
Arsenic	7440-38-2	2.5	2.5	U	ug/l	SW846 6010
Barium	7440-39-3	0.54	0.3	В	ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U	ug/l	SW846 6010
Chromium	7440-47-3	1.9	0.8	В	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U	ug/l	SW846 7470
Selenium	7782-49-2	2.8	2.8	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS						
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	Ū	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	ug/i	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	ug/l	SW846 8270

Location: NA
Sample ID: ER025
COE Sample ID: F
Date Collected: 11/1 25 **Depth:** NA FH010-ER025/11-16-96

11/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
2,4-Dichlorophenol	120-83-2	10	10	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	Ū	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	Ŭ	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	Ū	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	Ü	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	Ü	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	ug/l ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10		ug/l	SW846 8270
				U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	ug/i	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	3	50	J	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	Ü	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	Ü	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	Ü	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	9	10	J .	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		
Di-n-butyl Phthalate	84-74-2	10	10	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10		ug/i	SW846 8270
`` ,				U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U 🕟	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	Ü	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	Ū	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ü	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ŭ	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	-	SW846 8270
Pyrene					ug/l	
Pyridine	129-00-0	10	10	U	ug/l	SW846 8270
гупаine	110-86-1	50	50	U	ug/l	SW846 8270
VOLATILE ORGANICS	(20.20.4	-	<u>.</u>			
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8240
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	79-34-5 79-00-5	5 5	5	U U	ug/l	SW846 8240 SW846 8240



Location: NA
Sample ID: ER025
COE Sample ID: FI
Date Collected: 11/1

Depth: NA FH010-ER025/11-16-96

11/16/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual I	Data Qual	<u>Units</u>	Method
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	Ü		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	Ŭ		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	Ü		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ŭ		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	Ū		ug/l	SW846 8240
1.2-Dichlorobenzene	95-50-1	5	5	Ŭ		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	Ü		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	Ü		ug/l ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	Ü		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U			
1,3-Dichlorobenzene	541-73-1	5	5	Ü		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	Ü		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7					ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U.		ug/l	SW846 8240
2-Chlorotoluene		5	5	U		ug/l	SW846 8240
	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	. 5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	Ū		ug/l	SW846 8240
Methylene Chloride	75-09-2	2	5	Ĵ		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	Ŭ		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	Ŭ		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	Ü		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	Ü		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	Ŭ		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	Ŭ		ug/l	SW846 8240
Styrene	100-42-5	5	5	U			
tert-Butylbenzene	98-06-6	5	5			ug/l	SW846 8240
Tetrachloroethene	127-18-4	<i>5</i>	5	U U		ug/l	SW846 8240
Toluene	108-88-3	5 5	5			ug/l	SW846 8240
Trichloroethene				U		ug/l	SW846 8240
Trichlorofluoromethane	79-01-6	5	5	U		ug/l	SW846 8240
	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: NA
Sample ID: TB021
COE Sample ID: FI
Date Collected: 12/1 021 **Depth:** NA FH010-TB021/12-16-96 12/16/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U	ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U	ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	Ü	ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	Ü	ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü	ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	Š	5	Ŭ	ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ	ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	Ü	ug/l ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U	ug/l ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		SW846 8240
1,2-dibromo-5-chioropropane	106-93-4	5	5	. U	ug/l	
					ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U	ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U	ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U	ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U	ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U	ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U	ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U	ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U	ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U	ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U	ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U	ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U	ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	Ū	ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	Ū	ug/l	SW846 8240
Acetone	67-64-1	5	5	Ü	ug/l	SW846 8240
Benzene	71-43-2	5	5	Ŭ	ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	Ŭ	ug/i	SW846 8240
Bromochloromethane	74-97-5	5	5	Ŭ	ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		SW846 8240
Bromoform	75-25-2	5	5	U	ug/l	SW846 8240
Bromomethane	73-23-2 74-83-9	5	5	U	ug/l	
				·	ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	Ü-	ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U	ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U	ug/l	SW846 8240
Chloroform	67-66-3	5	5	U	ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U	ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U	ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U	ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U	ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U	ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U	ug/l	SW846 8240
Isopropyi Benzene	98 - 82-8	5	5	U	ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U	ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U	ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U	ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	$\cdot \mathbf{U}$	ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U	ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U	ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U	ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	Ü	ug/l	SW846 8240
Styrene	100-42-5	5	5	Ŭ	ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	Ŭ	ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U	ug/l	SW846 8240
Toluene	108-88-3	5	5	Ū	-	SW846 8240
Trichloroethene	79-01-6	5	5 5	U	ug/l	
Trichlorofluoromethane	75-69-4	5		U	ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U	ug/l	SW846 8240
vinyi Cinoride	/ 3-01-4	د	3	U	ug/l	SW846 8240

 Location:
 NA

 Sample ID:
 ER026
 Depth:
 NA

 COE Sample ID:
 FH010-ER026/12-17-96

 Date Collected:
 12/17/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.5	2.5	U		ug/l	SW846 6010
Barium	7440-38-2	0.3	0.3	Ü		ug/l ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U		ug/l ug/l	SW846 6010
Chromium	7440-47-3	2.8	0.8	В		ug/l ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	Ŭ		ug/l ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	Ü		ug/l ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	Ŭ		ug/l ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	Ŭ		ug/l	SW846 6010
	7110 22 1	1.2	1.2	Ŭ		ug/1	5 11 0 10 00 10
SEMIVOLATILE ORGANICS							
	05.04.2	10	10			/4	GTT 10 1 C 00 FF0
1,2,4,5-Tetrachlorobenzene	95-94-3 120-82-1	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	95-50-1	10 10	10	U U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1		10			ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10 10	10	U U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10 10	Ŭ		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ü		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ü		ug/l ug/l	SW846 8270 SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	Ŭ		ug/l ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	Ŭ		ug/l ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	Ü		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	Ü		ug/l ug/l	SW846 8270
2-Chlorophenoi	95-57-8	10	10	Ŭ		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	Ŭ		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	Ü		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	Ŭ		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	Ü		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	Ŭ		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	Ŭ		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	Ū		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	Ū		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	Ü		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	Ú		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	5	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/i	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270

Location: NA
Sample ID: ER026
COE Sample ID: FI
Date Collected: 12/1 Depth: NA FH010-ER026/12-17-96

12/17/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	<u>Data Qual</u>	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	Ŭ		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	Ŭ		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	Ŭ		ug/l	SW846 8270
Isophorone	78-59-1	10	10	Ŭ		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	Ŭ		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	Ŭ		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	Ŭ		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	Ū		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ü		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ū		ug/l	SW846 8270
Phenol	108-95-2	10	10	Ŭ		ug/l	SW846 8270
Pyrene	129-00-0	10	10	Ŭ		ug/l	SW846 8270
Pyridine	110-86-1	50	. 50	Ü		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	Ŭ		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	Ū		ug/l	SW846 8240
1.1.2-Trichloroethane	79-00-5	5	5	Ü		ug/l	SW846 8240
1.1-Dichloroethane	75-34-3	. 5	5	Ü		ug/l	SW846 8240
1.1-Dichloroethene	75-35-4	5	5	Ü		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	Ü		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	Ü		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	Ü		ug/l ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ			SW846 8240
1,2,4-trientorobenzene	95-63-6	5	5	Ü		ug/l ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	Ü		ug/l ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ü		ug/l ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	Ū		-	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	Ü		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	
1,2-Dichloropropane	78 - 87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene		5				ug/l	SW846 8240
	106-46-7		5	U		ug/l	SW846 8240
2,2-Dichloropropane 2-Butanone	594-20-7	5	5	U		ug/l	SW846 8240
	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	3	5	J		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
						-	

 Location:
 NA

 Sample ID:
 ER026
 Depth:
 NA

 COE Sample ID:
 FH010-ER026/12-17-96
 Date Collected:
 12/17/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
n-propylbenzene	103-65-1	5	5	U	ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U	ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U	ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U	ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U	ug/l	SW846 8240
Styrene	100-42-5	5	5	U	ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U	ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U	ug/l	SW846 8240
Toluene	108-88-3	5	5	U	ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U	ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U	ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U	ug/l	SW846 8240

Location: NA
Sample ID: TB022
COE Sample ID: FH
Date Collected: 12/1

022 **Depth:** NA FH010-TB022/12-17-96

12/17/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual D	Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachioroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5 .	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	. 5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	\mathbf{U}		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U [*]		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240

 Location:
 NA

 Sample ID:
 TB022
 Depth:
 NA

 COE Sample ID:
 FH010-TB022/12-17-96

 Date Collected:
 12/17/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	\mathbf{U}		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	\mathbf{U}		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

 Location:
 NA

 Sample ID:
 TB024
 Depth:
 NA

 COE Sample ID:
 FH010-TB024/12-18-96

 Date Collected:
 12/18/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	630-20-6	5	- 5	U	ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U	ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U	ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U	ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	U	ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	U	ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	U	ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U	ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U	ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U	ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U	ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U	ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	U	ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U	ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U	ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U	ug/l	SW846 8240
1,3-Dichlorobenzene	541 - 73-1	5	5	U	ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U	ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U	ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U	ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U	ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U	ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U	ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U	ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	\mathbf{U}^{\cdot}	ug/l	SW846 8240
Acetone	67-64-1	5	5	U	ug/l	SW846 8240
Benzene	71-43-2	5	5	U	ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U	ug/l	SW846 8240

Location: NA
Sample ID: TB024
COE Sample ID: F
Date Collected: 12/

024 **Depth:** NA FH010-TB024/12-18-96

12/18/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/i	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	. 5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: NA
Sample ID: ER027
COE Sample ID: F.
Date Collected: 12/1 027 **Depth:** NA FH010-ER027/12-19-96 12/19/96

<u>Parameter</u>	CAS Number	Result	<u>Detection Limit</u>	Lab Qual	Data Qual	<u>Units</u>	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	2.5	2.5	U	U	ug/l	SW846 6010
Barium	7440-39-3	0.3	0.3	U	Ü	ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U	U	ug/l	SW846 6010
Chromium	7440-47-3	3.8	0.8	В		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U*	UJ	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U	U	ug/l	SW846 7470
Selenium	7782-49-2	2.8	2.8	U	U	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1.2.4.5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
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 Location:
 NA

 Sample ID:
 ER027
 Depth:
 NA

 COE Sample ID:
 FH010-ER027/12-19-96

 Date Collected:
 12/19/96

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/I	SW846 8270
3-Nitroaniline	99-09-2	50 50	50 50	U U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol 4-Bromophenyl-phenyl Ether	534-52-1 101-55-3	50 10	30 10	U		ug/l ug/l	SW846 8270 SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	Ü		ug/l ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	Ŭ		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	Ŭ		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	Ū		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	Ü		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4 117-81-7	10 10	10 10	Ŭ		ug/l	SW846 8270 SW846 8270
Bis(2-ethylhexyl)phthalate Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/i	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	Ŭ		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	Ŭ		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	1.4	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1 621-64-7	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	86-30-6	10 10	10 10	U U		ug/l	SW846 8270 SW846 8270
N-Mirosodiphenyiamine Naphthalene	91-20-3	10	10	U		ug/l ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	Ü		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	Ü		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	Ū		ug/l	SW846 8270
Phenol	108-95-2	10	10	Ŭ		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	. 5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8240
1,1-Dichloropropene 1,2,3-Trichlorobenzene	563-58-6 87-61-6	5 5	5 5	U U		ug/l	SW846 8240 SW846 8240
1,2,3-11 ICHIOI OUCHZONC	0/-01-0	3	3	U		ug/l	o vv 040 844U

Location: NA
Sample ID: ER027
COE Sample ID: FI
Date Collected: 12/1 027 **Depth:** NA FH010-ER027/12-19-96 12/19/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8240
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2	5	5	Ü		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/i	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	26	5			ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108 - 90-7	5	5	U		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8240
Chloroform	67-66-3	5	5	U		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	. 5	U		ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8240
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	. 3	5	J		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U	+,	ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U	*	ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	Ū		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	Ū		ug/l	SW846 8240
Toluene	108-88-3	5	5	Ū		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	Ū		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	Ū		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	Ū		ug/l	SW846 8240
-						-	



Location: NA
Sample ID: TB025
COE Sample ID: FH
Date Collected: 12/19 8025 **Depth:** NA FH010-TB025/12-19-96 12/19/96

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8240
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	5	. 5	U		ug/l	SW846 8240
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8240
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8240
1,1-Dichloroethene	75-35-4	5	5	Ū		ug/l	SW846 8240
1,1-Dichloropropene	563-58-6	5	5	Ū		ug/l	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	5	5	Ū		ug/l	SW846 8240
1,2,3-Trichloropropane	96-18-4	5	5	Ŭ		ug/l	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	5	5	Ŭ		ug/l	SW846 8240
1,2,4-trimethylbenzene	95-63-6	5	5	Ŭ		ug/l	SW846 8240
1,2-cis-Dichloroethene	156-59-2	5	5	Ŭ		ug/l	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	5	5	Ü		ug/l	SW846 8240
1,2-Dibromoethane	106-93-4	5	5	Ŭ		ug/l	SW846 8240
1,2-Diolomoemane	95-50-1	5	5				
,		5	5	U		ug/l	SW846 8240
1,2-Dichloroethane	107-06-2			U		ug/l	SW846 8240
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8240
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8240
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8240
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8240
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8240
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8240
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8240
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8240
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8240
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8240
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8240
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8240
Acetone	67-64-1	5	5	U		ug/l	SW846 8240
Benzene	71-43-2	5	5	U		ug/l	SW846 8240
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8240
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8240
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8240
Bromoform	75-25-2	5	5	U		ug/l	SW846 8240
Bromomethane	74-83-9	5	5	Ü		ug/l	SW846 8240
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8240
Chlorobenzene	108-90-7	5	5	Ū		ug/l	SW846 8240
Chloroethane	75-00-3	5	5	Ŭ		ug/l	SW846 8240
Chloroform	67-66-3	5	5	Ŭ		ug/l	SW846 8240
Chloromethane	74-87-3	5	5	Ŭ		ug/l	SW846 8240
Dibromochloromethane	124-48-1	5	5	Ü		ug/l	SW846 8240
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8240
Dichlorodifluoromethane	75-71-8	5	5	Ü		ug/l ug/l	SW846 8240
Ethylbenzene	100-41-4	5	5	Ü	1	-	SW846 8240 SW846 8240
		-				ug/l	
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8240
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8240
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8240
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8240
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8240
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8240
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8240
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8240
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8240
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8240
Styrene	100-42-5	5	5	U		ug/l	SW846 8240
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8240
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8240
Toluene	108-88-3	5	5	U		ug/l	SW846 8240
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8240
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8240
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8240

Location: NA
Sample ID: ER097
COE Sample ID: FH01
Date Collected: 5/11/98 097 **Depth:** NA FH010-ER097/05-11-98 5/11/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	<u>Units</u>	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2.9	U		ug/l	SW846 6010
Barium	7440-39-3	1.2	0.6	B		ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	Ū		ug/l	SW846 6010
Chromium	7440-47-3	0.83	0.7	В		ug/l	SW846 6010
Lead	7439-92-1	1.5	1.5	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U		ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	U		ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U		ug/i	SW846 6010
CENTRAL ATTENDANCE							
SEMIVOLATILE ORGANICS		• •					~~~~
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U U		ug/l	SW846 8270
1,2,4-Trichlorobenzene 1,2-Dichlorobenzene	120-82-1 95-50-1	10 10	10 10	U		ug/l ug/l	SW846 8270 SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	Ŭ		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	51	51	Ü		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	Ŭ		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	Ū		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	51	51	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	51	51	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	51 51	51 51	U U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol 4-Bromophenyl-phenyl Ether	534-52-1 101-55-3	10	10	U.		ug/l	SW846 8270 SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	Ü		ug/l ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	Ŭ		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	Ŭ		ug/l	SW846 8270
4-Nitroaniline	100-01-6	51	51	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	51	51	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	Ū		ug/l	SW846 8270
Benzoic Acid	65-85-0	8	51	J		ug/l	SW846 8270
Benzyl Alcohol Bis(2-chloroethoxy)methane	100-51-6 111-91-1	10 10	10 10	U U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-91-1	10	10	U		ug/l ug/l	SW846 8270 SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l ug/l	SW846 8270
Chrysene	218-01-9	10	10	Ü		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	Ū		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	Ū		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	Ū		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	Ü		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270

Location: NA
Sample ID: ER097
COE Sample ID: FH
Date Collected: 5/11/ 097 **Depth:** NA FH010-ER097/05-11-98 5/11/98

<u>Parameter</u>	CAS Number	Result	Detection Limit	Lab Qual Data Qual	<u>Units</u>	Method
Hexachlorobutadiene	87-68-3	10	10	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	51	51	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	ug/l	SW846 8270
VOLATILE ORGANICS						
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5 -	5	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	ug/l	SW846 8260
1.1-Dichloroethene	75-35-4	5	5	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	ug/l	SW846 8260
1.2.4-Trichlorobenzene	120-82-1	5	5	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	ug/l	SW846 8260
1.2-cis-Dichloroethene	156-59-2	5	5	Ū	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	Ū	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	Ū	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	Ü	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	Ŭ	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	Ü	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	Ü	ug/l	SW846 8260
1,3-Dichlorobenzene	541 - 73-1	5	5	Ü	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	Ŭ	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	Ü	ug/l	SW846 8260
2.2-Dichloropropane	594-20-7	5	5	Ŭ	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	Ŭ	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	Ŭ	ug/l	SW846 8260
2-Chronologuene 2-Hexanone	591-78-6	5	5	Ŭ	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	Ŭ	ug/l	SW846 8260
	108-10-1	5	5	Ŭ 5	ug/l	SW846 8260
4-Methyl-2-pentanone	67-64-1	5	5	Ü	ug/l	SW846 8260
Acetone Benzene	71-43-2	5	5	Ü	ug/l	SW846 8260
	108-86-1	5	5	Ü	ug/l	SW846 8260
Bromobenzene	74-97-5	5	5	Ü	ug/l	SW846 8260
Bromochloromethane	75-27-4	5	5	Ü	ug/l	SW846 8260
Bromodichloromethane	75-27-4 75-25-2	5	5 5	U	ug/i ug/i	SW846 8260
Bromoform	73-23-2 74-83-9	5	5	U	ug/l	SW846 8260
Bromomethane	74-83-9 56-23-5	5	5	U	ug/i ug/i	SW846 8260
Carbon Tetrachloride		5	5	U	-	SW846 8260
Chlorobenzene	108-90-7		5	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	-		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	ug/l	SW846 8260 SW846 8260
Chloromethane	74-87-3	5	5	U	ug/l	SW846 8260 SW846 8260
Dibromochloromethane	124-48-1	5	5	U	ug/l	
Dibromomethane	74-95-3	5	5	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	ug/l	SW846 8260

 Location:
 NA

 Sample ID:
 ER097
 Depth:
 NA

 COE Sample ID:
 FH010-ER097/05-11-98

 Date Collected:
 5/11/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U.	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	ug/l	SW846 8260

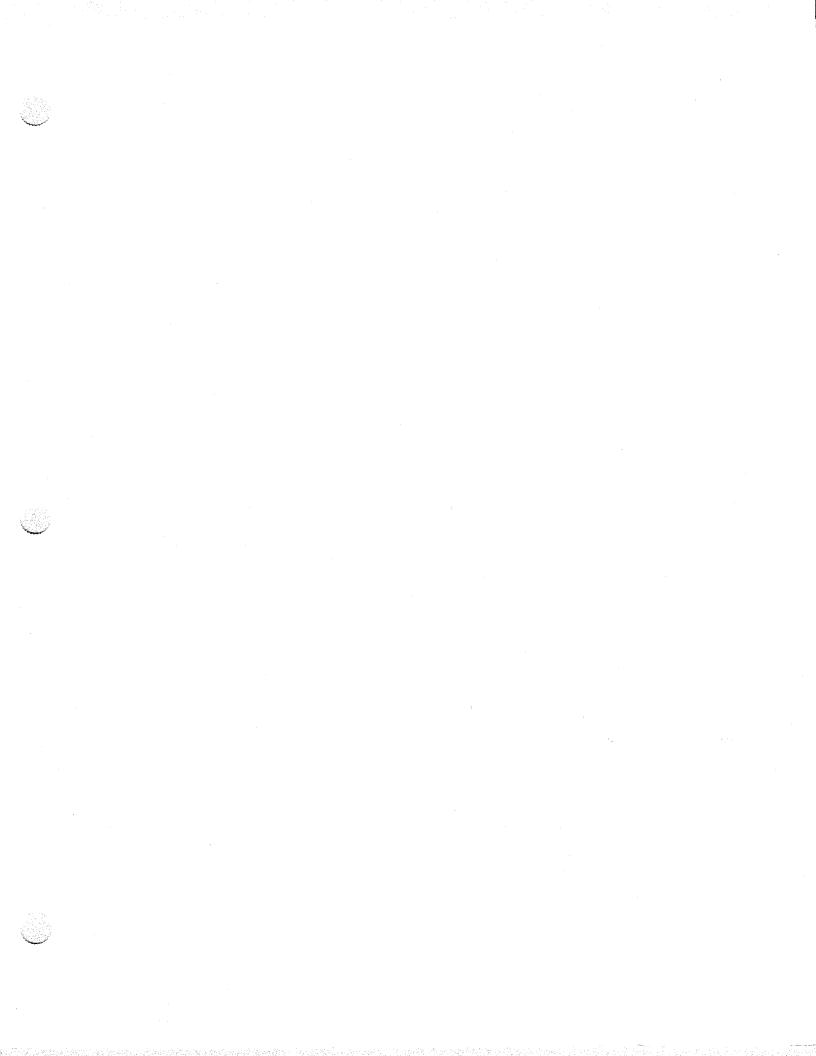
	NORGANIC LABORATORY QUALIFIER FLAGS
ľ	The analyte was analyzed for but not detected.
В	The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
E	The reported value is estimated because or the presence of interference.
М	Duplicate injection precision not met.
N	Spike sample recovery not within control limits.
s	The reported value was determined by the Method of Standard Additions (MSA).
w	Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
•	Duplicate analysis not within control limits.
-	Correlation coefficient for the MSA is less than 0.995.

	ORGANIC LABORATORY QUALIFIER FLAGS
ľ	Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for pinenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor the sample quantitation limit for phenoi (330 U) would be corrected to:
	$\frac{\text{(330U)}}{\text{D}} \times \text{df where} \qquad D = \frac{100 - \frac{\text{(moisture}}{\text{100}}}{100}$
	And df = dilution factor
	at 24% moisture $D = \frac{100-24}{100} = 0.76$
	(330U) X 10 = 4300 U rounded to the appropriate number of significant figures
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L but a concentration of 3 ug/L is calculated, report it as 3.J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/Kg and a sample quantitation limit of 430 ug/Kg, report the concentration as 300 J.
N	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported and flagged with a "P".
С	This flag applies to pesticide results where the identification has been confirmed GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract shall be confirmed by GC/MS.
В	This flag is used when the analyte is found in the associated blank as well in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

	ORGANIC LABORATORY QUALIFIER FLAGS
Е	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale the sample or extract must be diluted and reanalyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms i.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the "E" flag above all concentration values reported on that Form i are flagged with the "D" flag.
A	This flag indicates that a TIC is a suspected adol-condensation product
X	Over specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such descriptions attached to the Sample Data Summary Package and the Case Narrative. If more than one is required use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result use the "X" flag to combine several flags, as needed. For instance the "X" flag might combine the "A", "B", and "D" flags for some sample.

** Data Qualifiers

	DATA VALIDATION QUALIFIER FLAGS					
U	The analyte was analyzed for but not detected.					
J	The reported value is estimated because or the presence of interference.					
R	The reported value is rejected.					



EPA SAMPLE NO.

10SB101

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.10

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22732.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 14

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

	. J.			
74-87-3	CHLOROMETHANE		6	U
	BROMOMETHANE		6	U
	VINYL CHLORIDE		6	U
	CHLOROETHANE		6	Ü
	METHYLENE CHLORIDE		2	JB
67-64-1		· i	7	E
	1 1-DICHLOROETHENE		6	Ţ
	1 1-DICHLOROETHANE	1	6	τ
	CHLOROFORM	1	6	τ
107-06-2	1 2-DICHLOROETHANE	` 	6	Ţ
	2-BUTANONE	·	6	τ
71-55-6	1 1 1-TRICHLOROETHANE	·	6	Ţ
56-23-5	CARBON TETRACHLORIDE	•	6	Ī
	BROMODICHLOROMETHANE	•	6	1
	1 2-DICHLOROPROPANE	-	6	
	TRICHLOROETHENE	-	6	
	DIBROMOCHLOROMETHANE	-	6	
79-00-5	1 1 2-TRICHLOROETHANE	-	6	
71-43-2		-	6	
	BROMOFORM	-	6	
108-10-1	4-METHYL-2-PENTANONE	-	6	
	2-HEXANONE	-	6	
	TETRACHLOROETHENE	-	6	
	TOLUENE	-	6	
70 24 E	1 1 2 2-TETRACHLOROETHANE	- [6	
100 00 7	CHLOROBENZENE	-	6	
100-30-7	ETHYL BENZENE	-	6	
		-	6	
100-42-5	STYRENE cis-1 2-DICHLOROETHENE	-	6	
156-59-2	CIS-I Z-DICHLOROEIDENE	-	6	
156-60-5	trans-1 2-DICHLOROETHENE	-	6	
	m,p-XYLENES	-	6	
	O-XYLENE	-	6	
106-93-4	1 2-DIBROMOETHANE	-		
630-20-6	1 1 1 2-TETRACHLOROETHANE	-	6	

EPA SAMPLE NO.

10SB101

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.10

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: I22732.D

Level: (low/med)

LOW

Date Received: 12/18/96

% Moisture: not dec. 14

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

The Name: SWL-TULSA Contract: FT. HOOD 10SB101

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10933.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 14 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

100 05 2 Phonol	380	ט
108-95-2Phenol	380	וֹט
111-44-4bis(2-Chloroethyl)ether	380	Ü
95-57-82-Chlorophenol	380	ŭl
541-73-11,3-Dichlorobenzene	380	Ü
106-46-71,4-Dichlorobenzene	380	Ü
100-51-6Benzyl alcohol	380	וט
95-50-11,2-Dichlorobenzene		וט
95-48-72-Methylphenol	380	וט
108-60-1bis(2-Chloroisopropyl)ether_	380	
106-44-5	380	ū
621-64-7N-Nitroso-di-n-propylamine	380	ַ
67-72-1Hexachloroethane	380	U
98-95-3Nitrobenzene	380	ַ ד
78-59-1Isophorone	380	ן ט
88-75-52-Nitrophenol	380	ן ט
105-67-92,4-Dimethylphenol	380	ע
65-85-0Benzoic Acid	1900	ן ט
111-91-1bis(2-Chloroethoxy)methane	380	U
120-83-22,4-Dichlorophenol	380	U
120-83-2	380	ט
91-20-3Naphthalene	380	וט
106-47-84-Chloroaniline	380	ט
	380	บ
87-68-3Hexachlorobutadiene	380	υ
59-50-74-Chloro-3-methylphenol	380	Ŭ
91-57-62-Methylnaphthalene	380	Ŭ
77-47-4Hexachlorocyclopentadiene	380	Ū
88-06-22,4,6-Trichlorophenol	1900	บี
95-95-42,4,5-Trichlorophenol		บ
91-58-72-Chloronaphthalene	380	บ
88-74-42-Nitroaniline	1900	1
131-11-3Dimethylphthalate	380	Ŭ
208-96-8Acenaphthylene	380	ָ טַ
606-20-22,6-Dinitrotoluene	380	ט
		l

EPA SAMPLE NO.

10SB101

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10933.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 14 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAD NO.		•	
	0 77'h	1900	ט
99-09-2	3-Nitroaniline	380	Ū
83-32-9	Acenaphthene	380	Ū
121-14-2	2,4-Dinitrotoluene	1900	וֹט
51-28-5	2,4-Dinitrophenol	1900	Ü
100-02-7	4-Nitrophenol	380	וט
132-64-9	Dibenzofuran	380	ΰl
84-66-2	Diethylphthalate	380	ŭl
7005-72-3	4-Chlorophenyl-phenylether_	380	ן ט
86-73-7	Fluorene	1900	ן ט
100-01-6	4-Nitroaniline		Ü
534-52-1	4,6-Dinitro-2-methylphenol_	1900	ָ ט
86-30-6	N-Nitrosodiphenylamine_(1)	380	
101-55-3	N-Nitrosodiphenylamine_(1)	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1900	ָט
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
84-74-2	Di-n-butylphthalate	380	Ŭ
206-44-0	Fluoranthene	380	U
129-00-0	Pvrene	380	ŭ
85-68-7	Butylbenzylphthalate	380	ן ט
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	380	ן ט
	Chrysene	380	ן ט
117-81-7	bis(2-Ethylhexyl)phthalate	380	ט
117-84-0	Di-n-octylphthalate	· 380	ן די
205-09-2	Benzo(b)fluoranthene	380	
203-99-2	Benzo(k)fluoranthene	380	
	Benzo(a)pyrene	380	
103-30-5	Indeno(1,2,3-cd)pyrene	380	ט
193-39-3	Dibenz(a,h)anthracene	T 380	ן ט
101 04 0	Pengo (g. h. i) perulene	⁻ 380	U
110 06-1	Benzo(g,h,i)perylene	380	U
110-80-1	Pyridine	-	
		_	. 1

EPA SAMPLE NO.

10SB101

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.10

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P10933.D

(low/med) Level:

Date Received: 12/18/96

% Moisture: not dec. 14

dec.

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

380

U

		U.S.	EPA - CLP				
-	:	INORGANIC A	1 ANALYSES DATA S	HEET		EPA SAMPLE	NO.
			2.2			01410	
Lab Name: SOUTH Lab Code: SWOK_Matrix (soil/watevel (low/med)% Solids:	ter): SOIL : LOW86	<u>-</u> 1		Date	Sample Receiv	SDG No.: 28 ID: 28014. yed: 12/18/	.10
Cor	ncentration	Units (ug,	/L or mg/kg dry	y wel	gnt): [MG/KG 	
	CAS No.	Analyte	Concentration	С	Q M		
	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Barium Cadmium Chromium Lead Mercury	4.9 39.9 0.13 6.6 7.2 0.04 0.35 0.22	B	P P P P P A P P	_ _ _ _ ⊽	
Color Before: Color After:	BROWN YELLOW	Clari	ty Before:			Texture:	MEDIUM
Comments: CLIENT_ID_=	=_10SB101						
	-]	FORM I - IN			TT %	MOD 1

ILM02.1

EPA SAMPLE NO.

10SB102

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22733.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 22 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/II OI	. 49/149/	00,10	×
	CHLOROMETHANE			6	Ū
74-83-9	BROMOMETHANE			6	U
75-01-4	VINYL CHLORIDE			6	וט
75-00-3	CHLOROETHANE			6	ן ט
75-09-2	METHYLENE CHLORIDE			2	JB
67-64-1	ACETONE			17	В
75-35-4	1 1-DICHLOROETHENE			6	U
75-34-3	1 1-DICHLOROETHANE			6	U
67-66-3	CHLOROFORM			6	U
107-06-2	1 2-DICHLOROETHANE			6	U
	2-BUTANONE			6	U
71-55-6	1 1 1-TRICHLOROETHANE			6	וט
56-23-5	CARBON TETRACHLORIDE -			6	U
75-27-4	BROMODICHLOROMETHANE			6	U
78-87-5	1 2-DICHLOROPROPANE			6	ן ט
	TRICHLOROETHENE			6	U
	DIBROMOCHLOROMETHANE			6	ן ט
	1 1 2-TRICHLOROETHANE			6	ן ט
71-43-2				6	ן ט
75-25-2	BROMOFORM			6	U
108-10-1	4-METHYL-2-PENTANONE			6	וט
591-78-6	2-HEXANONE		1.	6	ប
	TETRACHLOROETHENE			6	ט
108-88-3				6	וט
	1 1 2 2-TETRACHLOROETH	ANE		6	וט
	CHLOROBENZENE			6	וט
	ETHYL BENZENE			6	י די
100-42-5				6	וט
	cis-1 2-DICHLOROETHENE			6	U
156-60-5	trans-1 2-DICHLOROETHE	NE		6	ַ
	m,p-XYLENES			6	<u></u> ט
95-47-6	O-XYLENE			6	Ü
	1 2-DIBROMOETHANE			6	Ŭ
	1 2-DIBROMOETHANE 1 1 1 2-TETRACHLOROETH	IANE		6	τī
030-20-6	Z-IEIRACHIOROEIA			3	٦
				I	

EPA SAMPLE NO.

10SB102

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.11

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22733.D

Level: (low/med)

Date Received: 12/18/96

% Moisture: not dec. 22

LOW

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

96-18-4	1 2 3-TRICHLOROPROPANE		6	U
	DICHLORODIFLUOROMETHANE		6	U
75-69-4	TRICHLOROFLUOROMETHANE		6	U
74-95-3	DIBROMOMETHANE		6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE		6	U
, , ,	BROMOBENZENE		6	U
	n-BUTYLBENZENE		6 l	U
	tert-BUTYLBENZENE		6	Ū
135-98-8			6	U
	2-CHLOROTOLUENE		6	U
	4-CHLOROTOLUENE		6	Ū
95-50-1			6	Ü
541-73-1			6	U
106-46-7			6	Ū
142-28-9			6	U
594-20-7			6	บ
563-58-6	· · · · · · · · · · · · · · · · · · ·		6	ט
	HEXACHLOROBUTADIENE		6	Ū
	ISOPROPYLBENZENE		6	τ
	p-ISOPROPYLTOLUENE		6	ָד <u>.</u>
91-20-3	<u> </u>		6	Ū
103-65-1			6	ľ
87-61-6		.*	6	Ŭ
			6	اً ت
120-82-1			6	ן כ
95-63-6			6	Ū
108-67-8			6	Ţ
14-97-5	BROMOCHLOROMETHANE		J	1
		l		l

b Name: SWL-TULSA Contract: FT. HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10934.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 22 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

420 U 108-95-2----Phenol U 420 111-44-4----bis(2-Chloroethyl)ether_ U 420 95-57-8----2-Chlorophenol 541-73-1----1,3-Dichlorobenzene U 420 U 420 106-46-7----1,4-Dichlorobenzene U 420 100-51-6-----Benzyl alcohol U 420 95-50-1----1,2-Dichlorobenzene_ U 420 95-48-7-----2-Methylphenol 420 U 108-60-1-----bis(2-Chloroisopropyl)ether_ 420 U 106-44-5-----4-Methylphenol U 420 621-64-7----N-Nitroso-di-n-propylamine_ U 420 67-72-1-----Hexachloroethane_ U 420 98-95-3-----Nitrobenzene U 420 78-59-1-----Isophorone U 420 88-75-5----2-Nitrophenol U 420 105-67-9----2,4-Dimethylphenol_ U 2000 65-85-0-----Benzoic Acid U 420 111-91-1-----bis(2-Chloroethoxy)methane_ U 420 120-83-2----2,4-Dichlorophenol U 420 120-82-1----1,2,4-Trichlorobenzene_ U 420 91-20-3-----Naphthalene U 420 106-47-8-----4-Chloroaniline U 420 87-68-3-----Hexachlorobutadiene U 420 59-50-7----4-Chloro-3-methylphenol U 420 91-57-6----2-Methylnaphthalene U 420 77-47-4-----Hexachlorocyclopentadiene_ U 420 88-06-2----2,4,6-Trichlorophenol U 2000 95-95-4-----2,4,5-Trichlorophenol_ U 420 91-58-7----2-Chloronaphthalene_ U 2000 88-74-4----2-Nitroaniline U 420 131-11-3-----Dimethylphthalate U 420 208-96-8-----Acenaphthylene 420 606-20-2----2,6-Dinitrotoluene

The Name: SWL-TULSA Contract: FT. HOOD 10SB102

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10934.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 22 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

2000 U 99-09-2-----3-Nitroaniline U 83-32-9-----Acenaphthene 420 U 420 121-14-2----2,4-Dinitrotoluene_ U 2000 51-28-5-----2,4-Dinitrophenol_ U 2000 100-02-7----4-Nitrophenol U 420 132-64-9-----Dibenzofuran 420 U 84-66-2----Diethylphthalate 420 U 7005-72-3-----4-Chlorophenyl-phenylether_ U 420 86-73-7----Fluorene U 2000 100-01-6----4-Nitroaniline U 2000 534-52-1----4,6-Dinitro-2-methylphenol U 420 86-30-6----N-Nitrosodiphenylamine_(1)__ 420 U 101-55-3----4-Bromophenylphenylether_ U 420 118-74-1-----Hexachlorobenzene U 2000 87-86-5----Pentachlorophenol 420 U 85-01-8-----Phenanthrene 420 U 120-12-7-----Anthracene U 84-74-2-----Di-n-butylphthalate_ 420 U 420 206-44-0-----Fluoranthene U 420 129-00-0-----Pyrene U 420 85-68-7----Butylbenzylphthalate_ U 91-94-1----3,3 -Dichlorobenzidine 850 U 420 56-55-3-----Benzo(a)anthracene U 420 218-01-9-----Chrysene J 80 117-81-7-----bis(2-Ethylhexyl)phthalate_ 420 U 117-84-0-----Di-n-octylphthalate 420 U 205-99-2----Benzo(b)fluoranthene U 420 207-08-9----Benzo(k)fluoranthene U 420 50-32-8-----Benzo(a)pyrene 420 U 193-39-5----Indeno(1,2,3-cd)pyrene_ U 420 53-70-3-----Dibenz(a,h)anthracene_ 420 U 191-24-2----Benzo(g,h,i)perylene_ U 420 110-86-1-----Pyridine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB102

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.11

Sample wt/vol:

30.0 (g/mL) G

P10934.D Lab File ID:

dec.

Date Received: 12/18/96

Level:

(low/med) LOW

% Moisture: not dec. 22

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

U

95-9403-----1,2,4,5-Tetrachlorobenzene_

420

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EDZ	CA	TOM	T.	NIO

INORGANIC ANALYSES DATA SHEET	1
	01411
Lab Name: SOUTHWEST_LAB_OF_OK	SDG No.: 28014A
	e ID: 28014.11
<u></u>	ived: 12/18/96
9 Colida. 77 5	

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	7.3	-		P
7440-38-2	Barium	23.4	-		P-
7440-33-3	Cadmium	0.06	B		$_{\rm P}^{-}$
7440-43-3	Chromium	4.7	٦		P-
7439-92-1	Lead	6.4	-		P -
		0.04	ਰ		ĀV
7439-97-6 7782-49-2	Mercury_ Selenium	0.39			P
7440-22-4	Silver	0.39			P-
/440-22-4	Silver	0.25	U		-
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	Before: After:	BROWN	Clarit Clarit	y Before: Ly After:	 	Texture: Artifacts:	MEDIUM
Comme:	nts: IENT_ID_=	_10SB102		_			
			F	ORM I - IN	 	IL	M02.1

EPA SAMPLE NO.

10SB103

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22734.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 6 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-83-9		, 3 ,			
74-83-9	74-87-3	CHLOROMETHANE		5	U
75-01-4			-	5	ט
75-00-3			-	5	וט
75-09-2			-	5	ט
67-64-1			-	2	JB
75-35-4			-	8	В
75-34-31 1-DICHLOROETHANE 67-66-3			-		U
67-66-3			-		וט
107-06-2			-		ש
78-93-32-BUTANONE 71-55-61 1 1-TRICHLOROETHANE 556-23-5CARBON TETRACHLORIDE 75-27-4BROMODICHLOROMETHANE 78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 124-48-1DIBROMOCHLOROMETHANE 79-00-51 1 2-TRICHLOROETHANE 79-00-51 1 2-TRICHLOROETHANE 75-25-2BROMOFORM 5571-43-2BROMOFORM 5591-78-62-HEXANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 5108-90-7CHLOROBENZENE 5100-42-5STYRENE 156-59-2CIS-1 2-DICHLOROETHENE 156-60-5			-		וט
71-55-6			-		וט
56-23-5			-		U
75-27-4BROMODICHLOROMETHANE 78-87-5			-		Ū
78-87-51 2-DICHLOROPROPANE 5 79-01-6TRICHLOROETHENE 3 124-48-1DIBROMOCHLOROMETHANE 5 79-00-51 1 2-TRICHLOROETHANE 5 71-43-2BENZENE 5 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5 127-18-4TETRACHLOROETHENE 5 108-88-3TOLUENE 32 79-34-51 1 2 2-TETRACHLOROETHANE 5 108-90-7CHLOROBENZENE 5 100-41-4ETHYL BENZENE 5 156-59-2cis-1 2-DICHLOROETHENE 5 156-60-5trans-1 2-DICHLOROETHENE 5 13-302-07			-		וט
79-01-6TRICHLOROETHENE 124-48-1DIBROMOCHLOROMETHANE 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 75-25-2BROMOFORM 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2Cis-1 2-DICHLOROETHENE 513-302-07			-		Ū
124-48-1DIBROMOCHLOROMETHANE 5 79-00-51 1 2-TRICHLOROETHANE 5 71-43-2BENZENE 5 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 5 591-78-62-HEXANONE 5 127-18-4TETRACHLOROETHENE 5 108-88-3TOLUENE 32 79-34-51 1 2 2-TETRACHLOROETHANE 5 108-90-7CHLOROBENZENE 5 100-41-4ETHYL BENZENE 5 156-59-2STYRENE 5 156-60-5trans-1 2-DICHLOROETHENE 5 13-302-07			-	- 1	J
79-00-5			-	5	U
71-43-2BENZENE 75-25-2BROMOFORM 5 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6			-		U
75-25-2BROMOFORM 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07					U
108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6			-	5	υŪ
591-78-62-HEXANONE 5 127-18-4TETRACHLOROETHENE 5 108-88-3TOLUENE 32 79-34-51 1 2 2-TETRACHLOROETHANE 5 108-90-7CHLOROBENZENE 5 100-41-4ETHYL BENZENE 5 100-42-5STYRENE 5 156-59-2cis-1 2-DICHLOROETHENE 5 156-60-5				5	U
127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6			-	5	Ū
108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-60-XYLENE 106-93-41 2-DIBROMOETHANE			-	5	Ü
79-34-5			-		
108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6			-	- 1	Ū
100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6				5	Ū
100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5m,p-XYLENES 95-47-6		The state of the s	-	5	Ū
156-59-2cis-1 2-DICHLOROETHENE 5 156-60-5trans-1 2-DICHLOROETHENE 5 13-302-07m,p-XYLENES 5 95-47-6			-	5	Ū
156-60-5trans-1 2-DICHLOROETHENE5 13-302-07m,p-XYLENES5 95-47-6			- [5	Ŭ
13-302-07m,p-XYLENES 5 95-47-6				5	Ū
95-47-6			-	5	Ŭ
106-93-41 2-DIBROMOETHANE 5			-	5	Ü
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03U-ZU-0			-	=	l ü
	030-20-6	1 1 1 2-1E1RACHLOROETHANE	-	ا د	

EPA SAMPLE NO.

10SB103

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22734.D

Level: (low/med) LOW

Date Received: 12/18/96

% Moisture: not dec. 6

Date Analyzed: 12/20/96

Lab Sample ID: 28014.12

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

87-61-61 2 3-TRICHLOROBENZENE 5 U 120-82-11 2 4-TRICHLOROBENZENE 5 U 95-63-61 2 4-TRIMETHYLBENZENE 5 U 108-67-81 3 5-TRIMETHYLBENZENE 5 U 74-97-5BROMOCHLOROMETHANE 5 U

10SB103

Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10935.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 6 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		 1
108-95-2Phenol	350	ט
111-44-4bis(2-Chloroethyl)ether	350	וט
95-57-82-Chlorophenol	350	ן ט
541-73-11,3-Dichlorobenzene	350	ΰl
106-46-71,4-Dichlorobenzene	350	Ū
	350	Ü
100-51-6Benzyl alcohol	350	ŭ
95-50-11,2-Dichlorobenzene	350	ซีโ
95-48-72-Methylphenol	350	Ü
108-60-1bis(2-Chloroisopropyl)ether_	350 350	ŭ
106-44-54-Methylphenol		Ü
621-64-7N-Nitroso-di-n-propylamine	350	
67-72-1Hexachloroethane	350	U
98-95-3Nitrobenzene	350	U
78-59-1Isophorone	350	U
88-75-52-Nitrophenol	350	U
105-67-92,4-Dimethylphenol	350	U
65-85-0Benzoic Acid	1700	U
111-91-1bis(2-Chloroethoxy)methane	350	U,
120-83-22,4-Dichlorophenol	350	U
120-82-11.2.4-Trichlorobenzene	350	U
120-82-11,2,4-Trichlorobenzene91-20-3Naphthalene	350	U
106-47-84-Chloroaniline	350	บ
87-68-3Hexachlorobutadiene	350	บ
59-50-74-Chloro-3-methylphenol	350	U
91-57-62-Methylnaphthalene	350	U
77-47-4Hexachlorocyclopentadiene	350	Ū
	350	Ŭ
88-06-22,4,6-Trichlorophenol	1700	
95-95-42,4,5-Trichlorophenol	350	บ
91-58-72-Chloronaphthalene	1700	บ
88-74-42-Nitroaniline	350	บ
131-11-3Dimethylphthalate	•	ប
208-96-8Acenaphthylene	350	U U
606-20-22,6-Dinitrotoluene	350	"
•	1	l

EPA SAMPLE NO.

10SB103

P10935.D

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.12

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

(low/med) LOW Level:

Date Received: 12/18/96

% Moisture: not dec.

dec.

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.5

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-Nitroaniline 83-32-9Acenaphthene 121-14-22,4-Dinitrotoluene 51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 132-64-9Dibenzofuran 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine_(1) 101-55-34-Bromophenylphenylether 118-74-1Hexachlorobenzene 87-86-5Pentachlorophenol 85-01-8Phenanthrene 120-12-7Anthracene 84-74-2Di-n-butylphthalate	1700 350 350 1700 1700 1700 350 350 350 1700 350 350 350 350 350	טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
206-44-0Fluoranthene 129-00-0	Pyrene 350 Butylbenzylphthalate 350 3,3'-Dichlorobenzidine 700 Benzo(a)anthracene 350 Chrysene 350 bis(2-Ethylhexyl)phthalate 350 Di-n-octylphthalate 350 Benzo(b)fluoranthene 350 Benzo(k)fluoranthene 350 Benzo(a)pyrene 350 Indeno(1,2,3-cd)pyrene 350 Dibenz(a,h)anthracene 350 Benzo(g,h,i)perylene 350	מפטפטפטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט

EPA SAMPLE NO.

10SB103

b Name: SWL-TULSA

Contract: FT. HOOD

Tab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.12

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P10935.D

(low/med)

Date Received: 12/18/96

% Moisture: not dec. 6

dec.

Date Extracted: 12/19/96

Level:

Extraction: (SepF/Cont/Sonc) SONC

LOW

Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.5

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

U

95-9403-----1,2,4,5-Tetrachlorobenzene_

350

		U.S.	EPA - CLP				
	:	INORGANIC A	1 ANALYSES DATA S	HEET	.	EPA SAMPLE	NO.
Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	Car ater): SOIL): LOW93.	se No.: 280 - 9)14 SAS No.:	Lab Date	Rece	01412 SDG No.: 28 e ID: 28014 ived: 12/18	3014A .12
,	CAS No.	Analyte	Concentration			м	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-97-6 7782-49-2 7440-22-4	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	5.9 2.3 0.04 1.5 3.5 0.04 0.32 0.20	 _ _ _ _		P_P_P_AV P	
Color Before: Color After:	GREY_ YELLOW	Clar: Clar:	ity Before: ity After:			Texture: Artifacts:	MEDIU
Comments: CLIENT_ID_=	=_10SB103		FORM I - IN				

ILM02.1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

SAS No.:

Lab Name: SWL-TULSA Contract: FT HOOD

SDG No.: 28014

10SB104

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.13

Lab File ID: I22735.D

Sample wt/vol:

5.0 (g/mL) G

Date Received: 12/18/96

Level: (low/med) LOW

Date Analyzed: 12/20/96

% Moisture: not dec. 17

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND

Lab Code: SWOK Case No.: SAIC

(ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	6	<u> </u>
	BROMOMETHANE	6	U
	VINYL CHLORIDE	- 6	וֹט
	CHLOROETHANE	6	ט
	METHYLENE CHLORIDE	6	וט
67-64-1		5	JB
	1 1-DICHLOROETHENE	- 6	ט
	1 1-DICHLOROETHANE	- 6	וט
	CHLOROFORM	6	וט
	1 2-DICHLOROETHANE	- 6	וט
	2-BUTANONE	- 6 1	ט
	1 1 1-TRICHLOROETHANE	- 6	Ū
	CARBON TETRACHLORIDE	6	וט
	BROMODICHLOROMETHANE	- 6	U
	1 2-DICHLOROPROPANE	- 6	Ū
	TRICHLOROETHENE	2	J
	DIBROMOCHLOROMETHANE	- 6	U
	1 1 2-TRICHLOROETHANE	6	Ū
71-43-2		- 6	Ū
	BROMOFORM	- 6	Ū
	4-METHYL-2-PENTANONE	- 6	ט
	2-HEXANONE	- 6	U
-	TETRACHLOROETHENE	- 6	U
	TOLUENE	10	
	1 1 2 2-TETRACHLOROETHANE	- 6	Ū
	CHLOROBENZENE	- 6	U
	ETHYL BENZENE	- 6	Ū
100-42-5		- 6	Ū
	cis-1 2-DICHLOROETHENE	- 6	Ū
	trans-1 2-DICHLOROETHENE	- 6	Ū
	m,p-XYLENES	- 6	Ū
	O-XYLENE	- 6	Ŭ
106-93-4	1 2-DIBROMOETHANE	- 6	Ü
	1 2-DIBROMOETHANE 1 1 1 2-TETRACHLOROETHANE	- 6	υ
030-20-6	I I Z-IEIRACHLOROEIRANE	-	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB104

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.13

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22735.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 17 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB104

Contract: FT. HOOD b Name: SWL-TULSA

Case No.: SAIC

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.13

30.0 (g/mL) G Sample wt/vol:

Lab Code: SWOK

P10936.D Lab File ID:

(low/med) LOW Level:

Date Received: 12/18/96

17 % Moisture: not dec.

Date Extracted: 12/19/96

SONC (SepF/Cont/Sonc) Extraction:

Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

SAS No.:

GPC Cleanup:

(Y/N) N

pH: 7.8

dec.

Dilution Factor: 1.0

CONCENTRATION UNITS: COMPOUND CAS NO.

Q (ug/L or ug/Kg) UG/KG

400 108-95-2----Phenol 400 U 111-44-4----bis(2-Chloroethyl)ether 400 U 95-57-8----2-Chlorophenol U 400 541-73-1----1,3-Dichlorobenzene_ U 400 106-46-7----1,4-Dichlorobenzene_ U 400 100-51-6-----Benzyl alcohol U 400 95-50-1----1,2-Dichlorobenzene U 400 95-48-7----2-Methylphenol U 400 108-60-1----bis(2-Chloroisopropyl)ether_ 400 U 106-44-5----4-Methylphenol U 400 621-64-7----N-Nitroso-di-n-propylamine_ U 400 67-72-1-----Hexachloroethane Ū 400 98-95-3-----Nitrobenzene U 400 78-59-1-----Isophorone U 400 88-75-5----2-Nitrophenol U 400 105-67-9----2,4-Dimethylphenol_ U 1900 65-85-0-----Benzoic Acid 400 U 111-91-1----bis(2-Chloroethoxy)methane_ 120-83-2----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ 400 U 400 U 400 U 91-20-3-----Naphthalene 400 U 106-47-8-----4-Chloroaniline U 400 87-68-3-----Hexachlorobutadiene U 400 59-50-7----4-Chloro-3-methylphenol_ U 400 91-57-6----2-Methylnaphthalene U 400 77-47-4-----Hexachlorocyclopentadiene_ U 400 88-06-2----2,4,6-Trichlorophenol U 1900 95-95-4-----2,4,5-Trichlorophenol_ 400 U 91-58-7----2-Chloronaphthalene U 1900 88-74-4----2-Nitroaniline U 400 131-11-3-----Dimethylphthalate_ U 400 208-96-8-----Acenaphthylene U 400 606-20-2----2,6-Dinitrotoluene

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: FT. HOOD b Name: SWL-TULSA

10SB104

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.13

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: P10936.D

Level:

(low/med) LOW Date Received: 12/18/96

% Moisture: not dec.

dec. 17

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-Nitroaniline	
83-32-9	U
121-14-22,4-Dinitrotoluene	U
51-28-52,4-Dinitrophenol 1900 100-02-74-Nitrophenol 1900 132-64-9Dibenzofuran 400 84-66-2Diethylphthalate 400 7005-72-34-Chlorophenyl-phenylether 400 86-73-7Fluorene 400 100-01-64-Nitroaniline 1900 534-52-14,6-Dinitro-2-methylphenol 1900 86-30-6N-Nitrosodiphenylamine (1) 400 101-55-3	U
100-02-74-Nitrophenol 1900 132-64-9Dibenzofuran 400 84-66-2Diethylphthalate 400 7005-72-34-Chlorophenyl-phenylether 400 86-73-7Fluorene 400 100-01-64-Nitroaniline 1900 534-52-14,6-Dinitro-2-methylphenol 1900 86-30-6N-Nitrosodiphenylamine (1) 400 101-55-34-Bromophenylphenylether 400 118-74-1Hexachlorobenzene 400 87-86-5Pentachlorophenol 1900 85-01-8Phenanthrene 400 120-12-7Anthracene 400 84-74-2Di-n-butylphthalate 400 206-44-0	U
132-64-9	U
84-66-2	U
7005-72-34-Chlorophenyl-phenylether 400 86-73-7Fluorene 400 100-01-64-Nitroaniline 1900 534-52-14,6-Dinitro-2-methylphenol 1900 86-30-6N-Nitrosodiphenylamine (1) 400 101-55-34-Bromophenylphenylether 400 118-74-1Hexachlorophenol 1900 87-86-5Pentachlorophenol 1900 85-01-8Phenanthrene 400 120-12-7Anthracene 400 84-74-2Di-n-butylphthalate 400 206-44-0Fluoranthene 400 129-00-0	U
86-73-7	Ū
100-01-64-Nitroaniline 1900 534-52-14,6-Dinitro-2-methylphenol 1900 86-30-6N-Nitrosodiphenylamine_(1) 400 101-55-34-Bromophenylphenylether 400 118-74-1Hexachlorobenzene 400 87-86-5Pentachlorophenol 1900 85-01-8Phenanthrene 400 120-12-7Anthracene 400 84-74-2Di-n-butylphthalate 400 206-44-0Fluoranthene 400 129-00-0Pyrene 400 85-68-7Butylbenzylphthalate 400 91-94-13,3'-Dichlorobenzidine 800 56-55-3Benzo(a)anthracene 400 218-01-9	บ
534-52-14,6-Dinitro-2-methylphenol 1900 86-30-6N-Nitrosodiphenylamine_(1) 400 101-55-34-Bromophenylphenylether 400 118-74-1Hexachlorobenzene 400 87-86-5Pentachlorophenol 1900 85-01-8Phenanthrene 400 120-12-7Anthracene 400 84-74-2Di-n-butylphthalate 400 206-44-0Fluoranthene 400 129-00-0	Ū
86-30-6N-Nitrosodiphenylamine_(1) 400 101-55-34-Bromophenylphenylether	Ŭ
101-55-34-Bromophenylphenylether 400 118-74-1Hexachlorobenzene 400 87-86-5Pentachlorophenol 1900 85-01-8Phenanthrene 400 120-12-7Anthracene 400 84-74-2Di-n-butylphthalate 400 206-44-0Fluoranthene 400 129-00-0Pyrene 400 85-68-7Butylbenzylphthalate 400 91-94-13,3'-Dichlorobenzidine 800 56-55-3Benzo(a)anthracene 400 218-01-9	Ŭ
118-74-1	Ŭ
1900	Ŭ
85-01-8Phenanthrene 120-12-7Anthracene 84-74-2Di-n-butylphthalate 206-44-0Fluoranthene 129-00-0	Ü
120-12-7Anthracene 84-74-2Di-n-butylphthalate 206-44-0Fluoranthene 129-00-0	Ü
84-74-2	บ
206-44-0	บ
129-00-0	
85-68-7Butylbenzylphthalate 400 91-94-13,3'-Dichlorobenzidine 800 56-55-3Benzo(a)anthracene 400 218-01-9Chrysene 400 117-81-7bis(2-Ethylhexyl)phthalate 400	U
91-94-1	บ
91-94-13,3'-Dichlorobenzidine	U
56-55-3Benzo(a)anthracene	U
218-01-9	U
117-81-7bis(2-Ethylhexyl)phthalate 400	U
	U
117-84-0Di-n-octylphthalate 400	U
205-99-2Benzo(b) fluoranthene 400	U
207-08-9Benzo(k)fluoranthene 400	U
50-32-8Benzo(a)pyrene400	τ
193-39-5Indeno(1,2,3-cd)pyrene400	Ü
53-70-3Dibenz(a,h)anthracene 400	U
55-70-5Dibenz(d/ii/diichidocho	Ū
191-24-2	Ū
110-86-1Pyridine	_

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB104

b Name: SWL-TULSA

Contract: FT. HOOD

Tab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

(low/med)

Lab Sample ID: 28014.13

30.0 (g/mL) G

P10936.D Lab File ID:

Sample wt/vol:

LOW

Date Received: 12/18/96

% Moisture: not dec.

dec. 17

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc)

Level:

SONC

Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO. .

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene_

400

U

Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med)	WEST_LAB_OI Ca: Lter): SOIL : LOW	INORGANIC F F_OK_ se No.: 280	1 ANALYSES DATA S Contract: SA 014 SAS No.	AIC : Lab	Sampl	EPA SAMPLE 01413 SDG No.: 2 e ID: 28014 eived: 12/18	8014A .13_
	_82. centration		/L or mg/kg dry	y wei	.ght):	MG/KG	
	CAS No.	Analyte			Q	M	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Barium Cadmium Chromium Lead Mercury Selenium	3.9 55.3 0.14 7.1 7.5 0.04 0.36 0.23	B		P_ P_ P_ P_ AV P_ P_ 	
Color Before: Color After: Comments: CLIENT_ID_=	YELLOW	Clari	ity Before:			Texture:	MEDIUN
			FORM I - IN				MO2 1

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB105

Lab Name: SWL-TULSA Contract: FT HOOD

13-302-07----m,p-XYLENES

106-93-4----1 2-DIBROMOETHANE

156-59-2----cis-1 2-DICHLOROETHENE

156-60-5-----trans-1 2-DICHLOROETHENE

630-20-6-----1 1 1 2-TETRACHLOROETHANE

100-42-5----STYRENE

95-47-6-----XYLENE

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22736.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 10 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3------CHLOROMETHANE 6 IJ 74-83-9-----BROMOMETHANE 6 IJ 75-01-4-----VINYL CHLORIDE 6 ŢŢ 75-00-3-----CHLOROETHANE 6 U 2 75-09-2----METHYLENE CHLORIDE JB 67-64-1------ACETONE U 75-35-4----- 1 1-DICHLOROETHENE 75-34-3-----1 1-DICHLOROETHANE U 6 U 67-66-3------CHLOROFORM IJ 107-06-2----- 2-DICHLOROETHANE 6 78-93-3-----2-BUTANONE 6 U 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE 6 U 6 U 75-27-4-----BROMODICHLOROMETHANE 6 U 78-87-5-----1 2-DICHLOROPROPANE U 79-01-6-----TRICHLOROETHENE 6 124-48-1-----DIBROMOCHLOROMETHANE 6 U 6 U 79-00-5----- 1 1 2-TRICHLOROETHANE 71-43-2----BENZENE U 6 6 U 75-25-2-----BROMOFORM 6 IJ 108-10-1----4-METHYL-2-PENTANONE 591-78-6---**---**2-HEXANONE 6 U 6 127-18-4-----TETRACHLOROETHENE U 4 J 108-88-3-----TOLUENE 79-34-5-----1 1 2 2-TETRACHLOROETHANE U U

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB105

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.14

Sample wt/vol:

Level: (low/med)

5.0 (g/mL) G

Lab File ID: I22736.D

LOW

Date Received: 12/18/96

% Moisture: not dec. 10

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(uq/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	6	ŢŢ
75-71-8DICHLORODIFLUOROMETHANE	6	Ŭ
75-69-4TRICHLOROFLUOROMETHANE	6	IJ
, 3 0 3 1	6	Ü
	6	Ü
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	Ū
108-86-1BROMOBENZENE	6	Ū
104-51-8n-BUTYLBENZENE		Ū
98-06-6tert-BUTYLBENZENE	6	
135-98-8sec-BUTYLBENZENE	6	Ŭ
95-49-82-CHLOROTOLUENE	6	Ŭ
106-43-44-CHLOROTOLUENE	6	Ū
95-50-11 2-DICHLOROBENZENE	6	Ŭ
541-73-11 3-DICHLOROBENZENE	6	Ŭ
106-46-71 4-DICHLOROBENZENE	6	U
142-28-91 3-DICHLOROPROPANE	6	U
594-20-72 2-DICHLOROPROPANE	6	Ū
563-58-61 1-DICHLOROPROPENE	6	U
87-68-3HEXACHLOROBUTADIENE	6	U U
98-82-8ISOPROPYLBENZENE	6	U
99-87-6p-ISOPROPYLTOLUENE	6	ט (
91-20-3NAPHTHALENE	6	U
103-65-1n-PROPYLBENZENE	6	U
87-61-61 2 3-TRICHLOROBENZENE	6	ט
120-82-11 2 4-TRICHLOROBENZENE	6	U
95-63-61 2 4-TRIMETHYLBENZENE	6	Ū
108-67-81 3 5-TRIMETHYLBENZENE	6	Ū
74-97-5BROMOCHLOROMETHANE	6	l Ü
/4-5/-5BROMOCHLOROHEIHAME		
		I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: SWL-TULSA Contract: FT. HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10937.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 10 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

U 370 108-95-2----Phenol U 370 111-44-4----bis(2-Chloroethyl)ether_ U 370 95-57-8----2-Chlorophenol Ū 370 541-73-1----1,3-Dichlorobenzene U 370 106-46-7----1,4-Dichlorobenzene_ U 370 100-51-6-----Benzyl alcohol U 370 95-50-1----1,2-Dichlorobenzene U 370 95-48-7----2-Methylphenol U 370 108-60-1-----bis(2-Chloroisopropyl)ether_ U 370 106-44-5----4-Methylphenol 370 U 621-64-7----N-Nitroso-di-n-propylamine_ U 370 67-72-1-----Hexachloroethane_ U 370 98-95-3----Nitrobenzene U 370 78-59-1-----Isophorone U 370 88-75-5-----2-Nitrophenol U 370 105-67-9-----2,4-Dimethylphenol_ 1800 U 65-85-0-----Benzoic Acid 111-91-1----bis(2-Chloroethoxy)methane U 370 370 U 120-83-2----2,4-Dichlorophenol 370 U 120-82-1----1,2,4-Trichlorobenzene_ U 370 91-20-3-----Naphthalene U 370 106-47-8----4-Chloroaniline U 370 87-68-3-----Hexachlorobutadiene U 370 59-50-7----4-Chloro-3-methylphenol_ 370 U 91-57-6----2-Methylnaphthalene U 370 77-47-4-----Hexachlorocyclopentadiene 370 U 88-06-2----2,4,6-Trichlorophenol U 1800 95-95-4----2,4,5-Trichlorophenol U 370 91-58-7----2-Chloronaphthalene U 1800 88-74-4----2-Nitroaniline 370 U 131-11-3-----Dimethylphthalate U 370 208-96-8-----Acenaphthylene U 370 606-20-2----2,6-Dinitrotoluene

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: SWL-TULSA Contract: FT. HOOD 10SB105

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10937.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 10 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2	3-Nitroaniline	1800	บ
	Acenaphthene	370	ע
	2,4-Dinitrotoluene	370	ט
121-14-2	2,4-Dinitrophenol	1800	ប
100-02-7	4-Nitrophenol	1800	U
100-02-7	Dibenzofuran	370	וט
		370	ט
84-66-2	Diethylphthalate	370	Ū
7005-72-3	4-Chlorophenyl-phenylether_	370	บั
86-73-7	Fluorene	1800	บ
100-01-6	4-Nitroaniline	1800	บ็
534-52-1	4,6-Dinitro-2-methylphenol	370	Ü
86-30-6	N-Nitrosodiphenylamine_(1)	370	บ
101-55-3	4-Bromophenylphenylether	370	Ü
118-74-1	Hexachlorobenzene	1800	Ü
87-86-5	Pentachlorophenol	370	บ
	Phenanthrene		บ
120-12-7	Anthracene	370	บ
84-74-2	Di-n-butylphthalate	370	
206-44-0	Fluoranthene	370	Ŭ
129-00-0	Pyrene	370	Ū
85-68-7	Butylbenzylphthalate	370	1
91-94-1	3,3 -Dichlorobenzidine	730	
56-55-3	Benzo(a)anthracene	370	
	Chrysene	370	
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	1
205-99-2	Benzo(b)fluoranthene	370	
203-33-2	Benzo(k)fluoranthene	370	
	Benzo(a)pyrene	370	
103-30-5	Indeno(1,2,3-cd)pyrene	370	U
133-33-3	Dibenz(a,h)anthracene	370	ט
101 04 0	Ponzo(a h i) nervlene	370	
131-74-7	Benzo(g,h,i)perylene	370	ט
110-80-1	Pyridine	•	
	*	.	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB105

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.14

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

P10937.D

Level: (low/med)

Date Received: 12/18/96

% Moisture: not dec.

10 dec. Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc)

SONC

Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

370 U 95-9403-----1,2,4,5-Tetrachlorobenzene_

		U.S.	EPA - CLP					
		INORGANIC A	1 ANALYSES DATA S	SHE:	ET	EPA	SAMPLE	NO.
Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	ater): SOIL): LOW_ _90.	<u>-</u>	Contract: SA 014 SAS No.: /L or mg/kg dry	La Da	b Samp te Rec	le ID: eived:	01414 No.: 2 28014 12/18	8014A .14
COI	,	Unites (dg)	/H OF mg/kg dry	, w	ergne,	. MG/ N	·G	
	CAS No.	Analyte	Concentration	С	Q	М		
	7440-38-2 7440-39-3	Arsenic_ Barium	13.3	-		P P		
	7440-43-9 7440-47-3	Cadmium_ Chromium_	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			P_ P_ P_		
	7439-92-1 7439-97-6 7782-49-2		0.04	ਹ		ΑV		
	7440-22-4	Silver	0.21			P_ P_		
						-		
				-				
				-				
				-				
				-				
Color Before: Color After:			ty Before:		- -		ure: facts:	MEDI
Comments:	= 10SB105		-					•
								

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB106

SDG No.: 28014

Contract: FT HOOD Lab Name: SWL-TULSA

Lab Code: SWOK

Case No.: SAIC

Lab Sample ID: 28014.15 Matrix: (soil/water) SOIL

5.0 (g/mL) GSample wt/vol: Lab File ID: I22751.D

Date Received: 12/18/96 Level: (low/med) LOW

Date Analyzed: 12/27/96 % Moisture: not dec. 6

Dilution Factor: 1.0 Column: (pack/cap) CAP

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND

SAS No.:

	· · · · · · · · · · · · · · · · · · ·	
74-87-3CHLOROMETHANE	5	U
74-83-9BROMOMETHANE	5	Ū
75-01-4VINYL CHLORIDE	5	U
75-00-3	5	U
75-09-2METHYLENE CHLORIDE	14	
57-64-1ACETONE	17	
75-35-41 1-DICHLOROETHENE	5	J
75-34-31 1-DICHLOROETHANE	5	τ
57-66-3CHLOROFORM	5	Ţ
107-06-21 2-DICHLOROETHANE	5	Ţ
78-93-32-BUTANONE	5	Ţ
71-55-61 1 1-TRICHLOROETHANE	5	τ
56-23-5CARBON TETRACHLORIDE	5	τ
75-27-4BROMODICHLOROMETHANE	5	τ
78-87-51 2-DICHLOROPROPANE	5	1
79-01-6TRICHLOROETHENE	5	1
124-48-1DIBROMOCHLOROMETHANE	5	1
79-00-51 1 2-TRICHLOROETHANE	5	1
71-43-2BENZENE	5	
75-25-2BROMOFORM	5	
108-10-14-METHYL-2-PENTANONE	5	
591-78-62-HEXANONE	5	
127-18-4TETRACHLOROETHENE	5	
108-88-3TOLUENE	5	
79-34-51 1 2 2-TETRACHLOROETHANE	- 5	
108-90-7CHLOROBENZENE	- 5	
	5	
LOO-41-4ETHYL BENZENE	5	
100-42-5STYRENE	5	
156-59-2cis-1 2-DICHLOROETHENE	5	
156-60-5trans-1 2-DICHLOROETHENE	5	
13-302-07m,p-XYLENES		
95-47-6O-XYLENE	5	
106-93-41 2-DIBROMOETHANE	5	
630-20-61 1 1 2-TETRACHLOROETHANE	5	1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB106

Contract: FT HOOD Lab Name: SWL-TULSA

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.15

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: I22751.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 6

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

U 96-18-4-----1 2 3-TRICHLOROPROPANE 5 75-71-8-----DICHLORODIFLUOROMETHANE U 5 U 75-69-4-----TRICHLOROFLUOROMETHANE 5 IJ 74-95-3------DIBROMOMETHANE 5 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE U 5 U 108-86-1-----BROMOBENZENE 5 U 104-51-8----n-BUTYLBENZENE 5 U 98-06-6-----tert-BUTYLBENZENE 5 U 135-98-8-----sec-BUTYLBENZENE 5 U 95-49-8-----2-CHLOROTOLUENE 5 U 106-43-4----4-CHLOROTOLUENE U 95-50-1-----1 2-DICHLOROBENZENE U 541-73-1----- 3-DICHLOROBENZENE 5 U 106-46-7----- 4-DICHLOROBENZENE 5 U 142-28-9----- 3-DICHLOROPROPANE 5 U 594-20-7----2 2-DICHLOROPROPANE U 563-58-6----- 1 1-DICHLOROPROPENE U 87-68-3-----HEXACHLOROBUTADIENE 5 U 98-82-8-----ISOPROPYLBENZENE U 99-87-6----p-ISOPROPYLTOLUENE U 91-20-3-----NAPHTHALENE U 103-65-1----n-PROPYLBENZENE U 87-61-6-----1 2 3-TRICHLOROBENZENE 5 U 120-82-1-----1 2 4-TRICHLOROBENZENE U 95-63-6-----1 2 4-TRIMETHYLBENZENE 5 U 108-67-8----1 3 5-TRIMETHYLBENZENE 74-97-5----BROMOCHLOROMETHANE

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: SWL-TULSA Contract: FT. HOOD 10SB106

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28014

Matrix: (soil/water) SOIL Lab Sample ID: 28014.15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10938.D

Level: (low/med) LOW Date Received: 12/18/96

% Moisture: not dec. 6 dec. Date Extracted:12/19/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Therese (bopt / come /

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

108-95-2Phenol 350			
111-44-4	108-95-2Phenol		
95-57-82-Chlorophenol 350 U 541-73-11,3-Dichlorobenzene 350 U 106-46-71,4-Dichlorobenzene 350 U 100-51-6Benzyl alcohol 350 U 95-50-11,2-Dichlorobenzene 350 U 95-48-72-Methylphenol 350 U 108-60-1bis(2-Chloroisopropyl)ether 350 U 106-44-54-Methylphenol 350 U 106-44-5Hexachloroethane 350 U 98-95-3Nitrobenzene 350 U 98-95-3Nitrobenzene 350 U 98-95-3Isophorone 350 U 98-95-3Isophorone 350 U 105-67-92,4-Dimethylphenol 350 U 105-67-92,4-Dimethylphenol 350 U 111-91-1bis(2-Chloroethoxy)methane 350 U 120-82-11,2,4-Trichlorophenol 350 U 120-82-11,2,4-Trichlorobenzene 350 U 91-20-3Naphthalene 350 U 106-47-8	111-44-4bis(2-Chloroethyl)ether		
106-46-7	95-57-82-Chlorophenol		
106-46-7	541-73-11,3-Dichlorobenzene		
100-51-6Benzyl alcohol 350 U 95-50-11,2-Dichlorobenzene 350 U 95-48-72-Methylphenol 350 U 108-60-1bis(2-Chloroisopropyl)ether 350 U 106-44-54-Methylphenol 350 U 106-44-5Hexachloroethane 350 U 106-67-72-1Hexachloroethane 350 U 106-95-3Nitrobenzene 350 U 105-67-9	106-46-71,4-Dichlorobenzene		
95-50-11, 2-Dichlorobenzene 350 U 95-48-72-Methylphenol 350 U 108-60-1bis (2-Chloroisopropyl) ether 350 U 106-44-54-Methylphenol 350 U 621-64-7Nnitroso-di-n-propylamine 350 U 67-72-1			
95-48-72-Methylphenol 108-60-1bis(2-Chloroisopropyl)ether 106-44-54-Methylphenol 21-64-7N-Nitroso-di-n-propylamine 350 0067-72-1Hexachloroethane 98-95-3Nitrobenzene 78-59-1Isophorone 88-75-52-Nitrophenol 105-67-92,4-Dimethylphenol 105-67-92,4-Dimethylphenol 111-91-1bis(2-Chloroethoxy)methane 120-83-22,4-Dichlorophenol 120-82-11,2,4-Trichlorobenzene 91-20-3Naphthalene 106-47-84-Chloroaniline 87-68-3	95-50-11.2-Dichlorobenzene	350	
108-60-1bis(2-Chloroisopropyl) ether 350 106-44-54-Methylphenol 350 U 621-64-7Nitroso-di-n-propylamine 350 U 67-72-1Hexachloroethane 350 U 98-95-3Nitrobenzene 350 U 35	95-48-72-Methylphenol	1	
106-44-54-Methylphenol 350 U 621-64-7Nitroso-di-n-propylamine 350 U 67-72-1Hexachloroethane 350 U 98-95-3Nitrobenzene 350 U 78-59-1Isophorone 350 U 105-67-92-Nitrophenol 350 U 105-67-92-A-Dimethylphenol 350 U 11-91-1bis (2-Chloroethoxy)methane 350 U 120-83-22-4-Dichlorophenol 350 U 120-83-21,2,4-Trichlorobenzene 350 U 120-82-1Naphthalene 350 U 106-47-84-Chloro-3-methylphenol 350 U 106-47-84-Chloro-3-methylphenol 350 U 106-47-44-Chloro-3-methylphenol 350 U 106-47-4	108-60-1bis(2-Chloroisopropyl)ether		- 1
621-64-7Nitroso-di-n-propylamine 350 67-72-1Hexachloroethane 350 98-95-3Nitrobenzene 350 78-59-1Isophorone 350 88-75-5	106-44-54-Methylphenol	1	-
67-72-1	621-64-7N-Nitroso-di-n-propylamine		
98-95-3Nitrobenzene 350 U 78-59-1Isophorone 350 U 88-75-52-Nitrophenol 350 U 105-67-92,4-Dimethylphenol 350 U 65-85-0Benzoic Acid 1700 U 111-91-1	67-72-1Hexachloroethane	1	
78-59-1			
88-75-5			
105-67-92, 4-Dimethylphenol 350 65-85-0Benzoic Acid 1700 111-91-1bis(2-Chloroethoxy)methane 350 120-83-22, 4-Dichlorophenol 350 120-82-11, 2, 4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-8Naphthalene 350 87-68-3Hexachlorobutadiene 350 87-68-3			
1700 1700	105-67-92,4-Dimethylphenol	•	
111-91-1bis(2-Chloroethoxy)methane 350 120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-8Naphthalene 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	65-85-0Benzoic Acid		
120-83-22,4-Dichlorophenol 350 120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-64-Chloro-3-methylphenol 350 91-57-6	111-91-1bis(2-Chloroethoxy)methane	I	1
120-82-11,2,4-Trichlorobenzene 350 91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-64-Chloro-3-methylphenol 350 91-57-6	120-83-22,4-Dichlorophenol		
91-20-3Naphthalene 350 106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	120-82-11,2,4-Trichlorobenzene	1	1
106-47-84-Chloroaniline 350 87-68-3Hexachlorobutadiene 350 59-50-74-Chloro-3-methylphenol 350 91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	91-20-3Naphthalene	. 9	- 1
87-68-3	106-47-84-Chloroaniline		1 - 1
91-57-62-Methylnaphthalene 350 77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350			1 - 1
17-57-6	59-50-74-Chloro-3-methylphenol		- 1
77-47-4Hexachlorocyclopentadiene 350 88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	91-57-62-Methylnaphthalene		
88-06-22,4,6-Trichlorophenol 350 95-95-42,4,5-Trichlorophenol 1700 91-58-72-Chloronaphthalene 350 88-74-42-Nitroaniline 1700 131-11-3Dimethylphthalate 350 208-96-8Acenaphthylene 350	77-47-4Hexachlorocyclopentadiene		I I
95-95-42,4,5-Trichlorophenol 1700 U	88-06-22,4,6-Trichlorophenol		1 1
91-58-72-Chloronaphthalene	95-95-42,4,5-Trichlorophenol		1
88-74-42-Nitroaniline 1700 U 131-11-3Dimethylphthalate 350 U 208-96-8Acenaphthylene 350 U	91-58-72-Chloronaphthalene		
131-11-3Dimethylphthalate 350 U 208-96-8Acenaphthylene 350 U			1
208-96-8Acenaphthylene 350 U			
606-20-22,6-Dinitrotoluene 350	208-96-8Acenaphthylene		1
	606-20-22,6-Dinitrotoluene	350	ן ט
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB106

Contract: FT. HOOD b Name: SWL-TULSA

Case No.: SAIC SAS No.: Lab Code: SWOK

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.15

30.0 (g/mL) G Sample wt/vol:

Lab File ID:

P10938.D

Level: (low/med) LOW

Date Received: 12/18/96

% Moisture: not dec.

dec. 6

Date Extracted: 12/19/96

Extraction:

(SepF/Cont/Sonc) SONC Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-Nitroaniline	1700	וַטַ
83-32-9Acenaphthene	350	ΩĮ
121-14-22,4-Dinitrotoluene	350	n
51-28-52,4-Dinitrophenol	1700	ū
100-02-74-Nitrophenol	1700	Ü
132-64-9Dibenzofuran	350	ָט
84-66-2Diethvlphthalate	350	ū
7005-72-34-Chlorophenyl-phenylether_	350	וַיַּי
86-73-7Fluorene	350	ט
100-01-64-Nitroaniline	1700	ŭ
534-52-14,6-Dinitro-2-methylphenol	1700	ַ
86-30-6N-Nitrosodiphenylamine (1)	350	ַ
101-55-34-Bromophenylphenylether	350	Ŭ
118-74-1Hexachlorobenzene	350	U
87-86-5Pentachlorophenol	1700	บ บ
85-01-8Phenanthrene	350	บ
120-12-7Anthracene	350	ับ
84-74-2Di-n-butylphthalate	350	บ
206-44-0Fluoranthene	350	บ
129-00-0Pvrene	350	บ
85-68-7Butylbenzylphthalate	350	บ
91-94-13,3'-Dichlorobenzidine	700	U
56-55-3Benzo(a)anthracene	350	U
218-01-9Chrysene	350	U U
117-81-7bis(2-Ethylhexyl)phthalate	350	ט
117-84-0Di-n-octylphthalate	350	
205-99-2Benzo(b)fluoranthene	350	U U
207-08-9Benzo(k)fluoranthene	350	
50-32-8Benzo(a)pyrene	350	บ บ
193-39-5Indeno(1,2,3-cd)pyrene	350	ט
53-70-3Dibenz(a,h)anthracene	350	ט ט
191-24-2Benzo(q,h,i)perylene	350	l ü
110-86-1Pyridine	350	١
•	_	l

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB106

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28014

Matrix: (soil/water) SOIL

Lab Sample ID: 28014.15

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

P10938.D

(low/med) Level:

LOW

Date Received: 12/18/96

% Moisture: not dec. 6

dec.

Date Extracted: 12/19/96

Extraction: (SepF/Cont/Sonc)

SONC

Date Analyzed: 01/13/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

350 U 95-9403----1,2,4,5-Tetrachlorobenzene

U.S. EPA - CLP

Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	WEST_LAB_ON Casater): SOIL : LOW _93.0	INORGANIC A F_OK se No.: 280	1 ANALYSES DATA S Contract: SA 014 SAS No.:	AIC : Lab Sa Date F	SDG Imple ID Received	SAMPLE NO. 01415 No.: 28014A : 28014.15 : 12/18/96
	CAS No. 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Analyte Arsenic_ Barium_ Cadmium_ Chromium_ Lead_ Mercury_ Selenium_ Silver	Concentration 11.4 5.6 0.08 3.0 5.4 0.04 0.32 0.20	C Q 	M P P P P P P P P P P N N N N N N N N N	
Color Before: Color After: Comments: CLIENT_ID_=	YELLOW	Clari	ty Before:		Arti	ture: MEDIU

ILM02.1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB107

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

Matrix: (soil/water) SOIL Lab Sample ID: 28026.01

Mattix: (SOII) water, SOII

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22738.D

Level: (low/med) LOW Date Received: 12/19/96

% Moisture: not dec. 17 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	6	ש
74-83-9BROMOMETHANE	6	ט
75-01-4VINYL CHLORIDE	6	וט
75-00-3CHLOROETHANE	6	וט
75-09-2METHYLENE CHLORIDE	2	JB
67-64-1ACETONE	140	В
75-35-41 1-DICHLOROETHENE	6	<u></u> ד
75-34-31 1-DICHLOROETHANE	6	עד
67-66-3CHLOROFORM	6	Ū
107-06-21 2-DICHLOROETHANE	6	υl
78-93-32-BUTANONE	6	บั
71-55-61 1 1-TRICHLOROETHANE	6	บั
56-23-5CARBON TETRACHLORIDE	6	ŭ
75-27-4BROMODICHLOROMETHANE	6	ŭ
78-87-51 2-DICHLOROPROPANE	6	וֹט
79-01-6TRICHLOROETHENE	6	Ü
124-48-1DIBROMOCHLOROMETHANE	6	Ü
79-00-51 1 2-TRICHLOROETHANE	6	Π
	6	l ü
	. 6	บ
7 5 2 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6	Ü
	l i	Ü
591-78-62-HEXANONE	6	U
127-18-4TETRACHLOROETHENE	6 7	0
108-88-3TOLUENE		
79-34-51 1 2 2-TETRACHLOROETHANE	6	Ü
108-90-7CHLOROBENZENE	6	Ū
100-41-4ETHYL BENZENE	6	<u>ט</u>
100-42-5STYRENE	6	U
156-59-2cis-1 2-DICHLOROETHENE	6	U
156-60-5trans-1 2-DICHLOROETHENE	6	U
13-302-07m,p-XYLENES	6	ט
95-47-6O-XYLENE	6	U
106-93-41 2-DIBROMOETHANE	6	ן ט
630-20-61 1 1 2-TETRACHLOROETHANE	6	U
l		

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB107

ab Name: SWL-TULSA

SA Contract: FT HOOD

ab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28026

latrix: (soil/water) SOIL

Lab Sample ID: 28026.01

ample wt/vol:

5.0 (g/mL) G

Lab File ID: I22738.D

evel: (low/med) LOW

Date Received: 12/19/96

Moisture: not dec. 17

Date Analyzed: 12/20/96

olumn: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

VOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: FT HOOD lab Name: SWL-TULSA

10SB107RE

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28026

fatrix: (soil/water) SOIL

Lab Sample ID: 28026.01RA

3ample wt/vol:

5.0 (g/mL) G

Lab File ID: I22752.D

Level: (low/med)

LOW

Date Received: 12/19/96

% Moisture: not dec. 17

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

		I
74-87-3CHLOROMETHANE	6	ט
74-83-9BROMOMETHANE	6	U
75-01-4VINYL CHLORIDE	6	U
75-00-3CHLOROETHANE	6	ע
75-09-2METHYLENE CHLORIDE	16	
67-64-1ACETONE	44	
75-35-41 1-DICHLOROETHENE	6	Ū
75-34-31 1-DICHLOROETHANE	6	ע
67-66-3CHLOROFORM	6	ן ט
107-06-21 2-DICHLOROETHANE	6	U
78-93-32-BUTANONE	6	U
71-55-61 1 1-TRICHLOROETHANE	6	U
56-23-5CARBON TETRACHLORIDE	6	U
75-27-4BROMODICHLOROMETHANE	6	ט
78-87-51 2-DICHLOROPROPANE	6	U
79-01-6TRICHLOROETHENE	6	U
124-48-1DIBROMOCHLOROMETHANE	6	ן ט
79-00-51 1 2-TRICHLOROETHANE	6	ט
71-43-2BENZENE	6	ע
75-25-2BROMOFORM	6	ע
108-10-14-METHYL-2-PENTANONE	6	U
591-78-62-HEXANONE	6	ע י
127-18-4TETRACHLOROETHENE	6	ָ ט
108-88-3TOLUENE	6	ט ו
79-34-51 1 2 2-TETRACHLOROETHANE	6	ן ט
108-90-7CHLOROBENZENE	6	U U
100-41-4ETHYL BENZENE	6	ן ט
100-42-5STYRENE	6	ש
156-59-2cis-1 2-DICHLOROETHENE	6	ן ט
156-60-5trans-1 2-DICHLOROETHENE	6	ا ت
13-302-07m,p-XYLENES	6	ן ט
95-47-6XYLENES	6	ן ט
106-93-41 2-DIBROMOETHANE	. 6	ال
630-20-61 1 1 2-TETRACHLOROETHANE	. 6	Ü
63U-ZU-6I I I Z-IEIRACHLOROEIHANE	-	
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FT HOOD 10SB107RE

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28026

Matrix: (soil/water) SOIL

Lab Sample ID: 28026.01RA

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: I22752.D

(low/med)

Level:

LOW

Date Received: 12/19/96

% Moisture: not dec. 17

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

b Name: SWL-TULSA Contract: FT. HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

atrix: (soil/water) SOIL Lab Sample ID: 28026.01

ample wt/vol: 30.0 (g/mL) G Lab File ID: P10857.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 17 dec. Date Extracted:12/20/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

xtraction: (Sepr/Cont/Sonc) Sonc Date Analyzed: 01/00/97

Concentrated Extract Volume: 1000(uL)

PC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

		1
108-95-2Phenol	400	ט
111-44-4bis(2-Chloroethyl)ether	400	ן ט
95-57-82-Chlorophenol	400	ប
541-73-11,3-Dichlorobenzene	400	וט
106-46-71,4-Dichlorobenzene	400	ש
100-51-6Benzyl alcohol	400	וט
95-50-11,2-Dichlorobenzene	400	ש
95-48-72-Methylphenol	400	י ט
108-60-1bis(2-Chloroisopropyl)ether	400	וֹט
106-44-54-Methylphenol	400	וט
621-64-7N-Nitroso-di-n-propylamine	400	ַ
67-72-1Hexachloroethane	400	וט
98-95-3Nitrobenzene	400	υl
78-59-1Isophorone	400	וט
88-75-52-Nitrophenol	400	וט
105-67-92,4-Dimethylphenol	400	ַ ט
65-85-0Benzoic Acid	1900	ע
111-91-1bis(2-Chloroethoxy)methane	400	ן ט
120-83-22,4-Dichlorophenol	400	יט
120-82-11,2,4-Trichlorobenzene	400	ן ט
91-20-3Naphthalene	400	U
106-47-84-Chloroaniline	400	ן ט
87-68-3Hexachlorobutadiene	400	ט
59-50-74-Chloro-3-methylphenol	400	ט
91-57-62-Methylnaphthalene	400	ן ט
77-47-4Hexachlorocyclopentadiene	400	ט
88-06-22,4,6-Trichlorophenol	400	ן ט
95-95-42,4,5-Trichlorophenol	1900	ן ט
91-58-72-Chloronaphthalene	400	ַ ד
88-74-42-Nitroaniline	1900	ט
131-11-3Dimethylphthalate	400	ן ט
208-96-8Acenaphthylene	400	ט
606-20-22,6-Dinitrotoluene	400	U
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB107

Contract: FT. HOOD b Name: SWL-TULSA

SAS No.: Case No.: SAIC ab Code: SWOK

SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.01

30.0 (g/mL) G

Lab File ID: P10857.D

ample wt/vol:

(low/med) LOW evel:

Date Received: 12/19/96

Moisture: not dec. 17 Date Extracted: 12/20/96

SONC xtraction: (SepF/Cont/Sonc)

Date Analyzed: 01/08/97

oncentrated Extract Volume:

1000(uL)

PC Cleanup: (Y/N) N

pH: 7.3

dec.

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-Nitroaniline	1900	U
83-32-9Acenaphthene	400	U
121-14-22,4-Dinitrotoluene	400	U
51-28-52,4-Dinitrophenol	1900	U
100-02-74-Nitrophenol	1900	ַ
132-64-9Dibenzofuran	400	ַ
84-66-2Diethylphthalate	400	ַ
7005-72-34-Chlorophenyl-phenylether_	400	U
86-73-7Fluorene	400	U
100-01-64-Nitroaniline	1900	ַ ט
534-52-14,6-Dinitro-2-methylphenol	1900	יט
86-30-6N-Nitrosodiphenylamine (1)	400	ប
86-30-6N-NICIOSOGIPHENYIAMINE_(1)	400	ט
101-55-34-Bromophenylphenylether	400	ប
118-74-1Hexachlorobenzene	1900	บ
87-86-5Pentachlorophenol	400	Ū
85-01-8Phenanthrene	400	Ū
120-12-7Anthracene	400	บั
84-74-2Di-n-butylphthalate	400	บั
206-44-0Fluoranthene	400	Ŭ
129-00-0Pyrene	400	Ŭ
85-68-7Butylbenzylphthalate	-	ี บี
91-94-13,3'-Dichlorobenzidine	800	บี
56-55-3Benzo(a)anthracene	400	I .
218-01-9Chrysene	400	U
117-81-7bis(2-Ethylhexyl)phthalate_	400	ŭ
117-84-0Di-n-octylphthalate	400	U
205-99-2Benzo(b)fluoranthene	400	U
207-08-9Benzo(k)fluoranthene	400	
50-32-8Benzo(a)pyrene	400	
193-39-5Indeno(1,2,3-cd)pyrene	400	1
53-70-3Dibenz(a,h)anthracene	400	
191-24-2Benzo(g,h,i)perylene	400	
110 0C 1	400	U
110-86-1Pyridine	-	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB107

b Name: SWL-TULSA

Contract: FT. HOOD

b Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28026

itrix: (soil/water) SOIL

Lab Sample ID: 28026.01

imple wt/vol:

30.0 (g/mL) G

P10857.D Lab File ID:

Date Received: 12/19/96

(low/med) evel:

oncentrated Extract Volume:

Moisture: not dec.

dec. 17

Date Extracted:12/20/96 Date Analyzed: 01/08/97

ctraction: (SepF/Cont/Sonc) SONC

LOW

1000(uL)

PC Cleanup: (Y/N) N

pH: 7.3

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

U

95-9403-----1,2,4,5-Tetrachlorobenzene_

400

ure appr	·	NORGANIC A	NALYSES DATA S	HE	ET		A DIMILLE NO.
							02601
Name: SOUTHWEST_LAB_OF_OK Contract: SAIC Code: SWOK Case No.: 28026 SAS No.: SDG No.: 28026 Crix (soil/water): SOIL Lab_Sample ID: 28026.01_Crel (low/med): LOW Date Received: 12/19/96 Colids:82.9 Concentration Units (ug/L or mg/kg dry weight): MG/KG						D: 28026.01ed: 12/19/96	
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3	Arsenic	3.4 23.5 0.07 6.6	- - B		P P P P	

P P P AV 3.5 7439-92-1 Lead 0.04 U 0.36 U 0.23 U Mercury_ Selenium_ 7439-97-6 P_ P 7782-49-2 7440-22-4 Silver

lor Before:	BROWN		kture: MEDIUM tifacts:
ents: CLIENT_ID_=	_10SB107		
		FORM I - IN	ILM02.1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB108

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28026

Matrix: (soil/water) SOIL

Lab Sample ID: 28026.02

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: I22739.D

(low/med)Level:

LOW

Date Received: 12/19/96

% Moisture: not dec. 4

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

74-87-3	555525555555555555555555555555555555555	וממממממממממממממממממממממ
156-60-5trans-1 2-DICHLOROETHENE	5	U
		1

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB108

lab Name: SWL-TULSA

Contract: FT HOOD

lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28026

fatrix: (soil/water) SOIL

Lab Sample ID: 28026.02

3ample wt/vol:

5.0 (g/mL) G

Lab File ID: I22739.D

Low/med) LOW

Date Received: 12/19/96

& Moisture: not dec. 4

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB108

b Name: SWL-TULSA Contract: FT. HOOD

b Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

trix: (soil/water) SOIL Lab Sample ID: 28026.02

imple wt/vol: 30.0 (g/mL) G Lab File ID: P10858.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 4 dec. Date Extracted:12/20/96

straction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

CTACTION: (Sepr/Cont/Sonc) Sonc Date Analyzed. 01/05/57

oncentrated Extract Volume: 1000(uL)

PC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phonol	340	ט
108-95-2	bis(2-Chloroethyl)ether	340	ט
111-44-4	2-Chlorophenol	340	U
95-5/-8	1 2 Dishieropage	340	บ
541-/3-1	1,3-Dichlorobenzene	340	Ū
106-46-7	1,4-Dichlorobenzene	340	ŭ
100-51-6	Benzyl alcohol	340	Ŭ
95-50-1	1,2-Dichlorobenzene	340	וֹט
95-48-7	2-Methylphenol	340	υ
108-60-1	bis(2-Chloroisopropyl)ether_	340	ΰl
106-44-5	4-Methylphenol	340	ΰĺ
621-64-7	N-Nitroso-di-n-propylamine	340	Ü
67-72-1	Hexachloroethane	340	Ŭ
98-95-3	Nitrobenzene	340	Ü
78-59-1	Isophorone	340	Ŭ
88-75-5	2-Nitrophenol	340	ŭ
105-67-9	2,4-Dimethylphenol	1700	Ü
65-85-0	Benzoic Acid	340	บี
111-91-1	bis(2-Chloroethoxy)methane	340	Ü
120-83-2	2,4-Dichlorophenol	340	וט
120-82-1	1,2,4-Trichlorobenzene		ŭ
91-20-3	Naphthalene	340	Ü
106-47-8	4-Chloroaniline	340	
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	ַ
91-57-6	2-Methylnaphthalene	340	ָּט
77-47-4	Hexachlorocyclopentadiene	340	ŭ
88-06-2	2,4,6-Trichlorophenol	340	ប្
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	ש
88-74-4	2-Nitroaniline	1700	ប
131-11-3	Dimethylphthalate	340	ט
208-96-8	Acenaphthylene	340	ָט
606-20-2	2,6-Dinitrotoluene	340	ט
1 000 20 2			

EPA SAMPLE NO. SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: FT. HOOD b Name: SWL-TULSA

10SB108

Case No.: SAIC ab Code: SWOK

SAS No.:

SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.02

ample wt/vol:

30.0 (g/mL) G

Lab File ID: P10858.D

evel: (low/med)

Date Received: 12/19/96

Moisture: not dec.

dec.

Date Extracted: 12/20/96

SONC xtraction: (SepF/Cont/Sonc)

LOW

Date Analyzed: 01/09/97

oncentrated Extract Volume:

1000(uL)

PC Cleanup: (Y/N) N

pH: 8.9

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-Nitroaniline	1700	ָט
83-32-9Acenaphthene	340	ַ
121-14-22,4-Dinitrotoluene	340	ןט
51-28-52,4-Dinitrophenol	1700	ַּט
100-02-74-Nitrophenol	1700	ן ט
132-64-9Dibenzofuran	340	U
84-66-2Diethylphthalate	340	ַד
7005-72-34-Chlorophenyl-phenylether	340	ן ט
86-73-7Fluorene	340	ע
100-01-64-Nitroaniline	1700	וט
534-52-14,6-Dinitro-2-methylphenol	1700	ַט
86-30-6Nitrosodiphenylamine_(1)	340	ប
101-55-34-Bromophenylphenylether	340	บ
118-74-1Hexachlorobenzene	340	U
87-86-5Pentachlorophenol	1700	Ū
87-86-5Pentachiorophenor	340	U
85-01-8Phenanthrene	340	บ
120-12-7Anthracene	340	Ŭ
84-74-2Di-n-butylphthalate	340	Ü
206-44-0Fluoranthene	340	Ŭ
129-00-0Pyrene	340	บี
85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine	690	Ü
91-94-13,3'-Dichlorobenzidine		ប
56-55-3Benzo(a)anthracene	340	1
218-01-9Chrysene	340	Ŭ
117-81-7bis(2-Ethylhexyl)phthalate	38	J
117-84-0Di-n-octylphthalate	340	ប
205-99-2Benzo(b)fluoranthene	340	U
207-08-9Benzo(k)fluoranthene	340	
50-32-8Benzo(a)pyrene	340	L .
193-39-5Indeno(1,2,3-cd)pyrene	340	1
53-70-3Dibenz(a,h)anthracene	340	
191-24-2Benzo(g,h,i)perylene	340	
110-86-1Pyridine	1 340	ט
-	1	

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB108

b Name: SWL-TULSA

Contract: FT. HOOD

ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.02

ample wt/vol:

30.0 (g/mL) G

Lab File ID: P10858.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec.

Date Extracted: 12/20/96 dec.

SONC xtraction: (SepF/Cont/Sonc)

4

Date Analyzed: 01/09/97

oncentrated Extract Volume:

1000(uL)

PC Cleanup: (Y/N) N

pH: 8.9

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403----1,2,4,5-Tetrachlorobenzene

340

U

U.S. EPA - CLP

• 0 4

	1		
TNORGANIC	ANALYSES	DATA	SHEET

EPA SAMPLE NO.

o Name: SOUTH o Code: SWOK_ crix (soil/wa vel (low/med) Solids:	ter): SOIL_	_	Contract: SA 026 SAS No.:	Lab Sample	02602 SDG No.: 28 e ID: 28026. ived: 12/19/	02
Con	centration	Units (ug/	L or mg/kg dry	y weight):	MG/KG	
	CAS No.	Analyte	Concentration	C Q	М	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3	Arsenic	1.9 1.8 0.04 1.1	<u> </u>	P_ P_ P_ P_	
	7439-92-1 7439-97-6 7782-49-2 7440-22-4	Lead Mercury	2.0 0.03 0.31 0.20	 	P_ AV P_ P_	
			To Dofers		Texture:	MEDIUM
olor Before:	BROWN	Clari	ty Before: ty After:		Artifacts:	
ents: _LIENT_ID_=	_10SB108		· .			

FORM I - IN

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB109

ab Name: SWL-TULSA Contract: FT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

latrix: (soil/water) SOIL
Lab Sample ID: 28026.03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22740.D

LOW Date Received: 12/19/96

Moisture: not dec. 7 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	. 5	ט
74-83-9BROMOMETHANE	5	וט
75-01-4VINYL CHLORIDE	5	וט
75-00-3CHLOROETHANE	5	וט
75-09-2METHYLENE CHLORIDE	2	JB
67-64-1ACETONE	43	В
75-35-41 1-DICHLOROETHENE	5	U
75-34-31 1-DICHLOROETHANE	5	וֹט
67-66-3CHLOROFORM	5	υl
107-06-21 2-DICHLOROETHANE	5	י ט
78-93-32-BUTANONE	5	וֹט
71-55-61 1 1-TRICHLOROETHANE	5	וֹט
56-23-5CARBON TETRACHLORIDE	5	וֹט
75-27-4BROMODICHLOROMETHANE	5	Ū
78-87-51 2-DICHLOROPROPANE	5	וט
79-01-6TRICHLOROETHENE	4	J
124-48-1DIBROMOCHLOROMETHANE	5	Ū
79-00-51 1 2-TRICHLOROETHANE	5	וֹט
71-43-2BENZENE	5	Ū
75-25-2BROMOFORM	5	ן ט
108-10-14-METHYL-2-PENTANONE	5	ָ <u>.</u>
591-78-62-HEXANONE	5	Ŭ
127-18-4TETRACHLOROETHENE	5	Ü
108-88-3TOLUENE	26	
79-34-51 1 2 2-TETRACHLOROETHANE	5	<u> </u>
108-90-7CHLOROBENZENE	5	الَّ ا
	5	Ü
100-41-4ETHYL BENZENE	5	ָ װ
100-42-5STYRENE	5	ָ <u></u>
156-59-2cis-1 2-DICHLOROETHENE	5	ן ט
156-60-5trans-1 2-DICHLOROETHENE	5	Ü
13-302-07m,p-XYLENES	5	Ü
95-47-6O-XYLENE	5	ט ט
106-93-41 2-DIBROMOETHANE	5	ט
630-20-61 1 1 2-TETRACHLOROETHANE	. 5	"

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB109

ab Name: SWL-TULSA

Contract: FT HOOD

ab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28026

[atrix: (soil/water) SOIL

Lab Sample ID: 28026.03

sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22740.D

Date Received: 12/19/96

Moisture: not dec. 7

evel: (low/med)

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND

LOW

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB109RE

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

Matrix: (soil/water) SOIL Lab Sample ID: 28026.03RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22753.D

Level: (low/med) LOW Date Received: 12/19/96

% Moisture: not dec. 7 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	5	ט
74-83-9BROMOMETHANE	5	U
75-01-4VINYL CHLORIDE	5	U
75-00-3CHLOROETHANE	5	ן ט
75-09-2METHYLENE CHLORIDE	11	
67-64-1ACETONE	25	
75-35-41 1-DICHLOROETHENE	5	Ū
75-34-31 1-DICHLOROETHANE	5	U
67-66-3CHLOROFORM	5	U
107-06-21 2-DICHLOROETHANE	5	U
78-93-32-BUTANONE	5	U
71-55-61 1 1-TRICHLOROETHANE	5	U
56-23-5CARBON TETRACHLORIDE	5	U
75-27-4BROMODICHLOROMETHANE	5	U
78-87-51 2-DICHLOROPROPANE	5	U
79-01-6TRICHLOROETHENE	5	U
124-48-1DIBROMOCHLOROMETHANE	5	U
79-00-51 1 2-TRICHLOROETHANE	5	Ū
71-43-2BENZENE	5	U
75-25-2BROMOFORM	5	U
108-10-14-METHYL-2-PENTANONE	5	U
591-78-62-HEXANONE	5	U
127-18-4TETRACHLOROETHENE	5	U
108-88-3TOLUENE	5	U
79-34-51 1 2 2-TETRACHLOROETHANE	5	ไ บั
108-90-7	5	U
100-41-4ETHYL BENZENE	5	Ū
100-42-5STYRENE	5	Ū
156-59-2cis-1 2-DICHLOROETHENE	5	Ū
	5	Ū
	5	l ŭ
13-302-07m, p-XYLENES	5	Ŭ
95-47-6	5	U U
	5	TT TT
630-20-61 1 1 2-TETRACHLOROETHANE]	"
		l

EPA SAMPLE NO.

10SB109RE

ab Name: SWL-TULSA

Contract: FT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.03RA

ample wt/vol: 5.0 (g/mL) G

Lab File ID: I22753.D

evel: (low/med) LOW

Date Received: 12/19/96

Moisture: not dec. 7

Date Analyzed: 12/27/96

column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

1		
96-18-41 2 3-TRICHLOROPROPANE	5 5	U
, , , , , ,	5	Ū
75-69-4TRICHLOROFLUOROMETHANE	5	Ü
74-95-3DIBROMOMETHANE		
96-12-81 2-DIBROMO-3-CHLOROPROPANE_	5	ū
108-86-1BROMOBENZENE	5	Ū
104-51-8n-BUTYLBENZENE	5	U U
98-06-6tert-BUTYLBENZENE	5	U
135-98-8sec-BUTYLBENZENE	5	ן ט
95-49-82-CHLOROTOLUENE	5	U
106-43-44-CHLOROTOLUENE	5	ע
95-50-11 2-DICHLOROBENZENE	5	ן די
541-73-11 3-DICHLOROBENZENE	5	ן די
106-46-71 4-DICHLOROBENZENE	5	ן ט
142-28-91 3-DICHLOROPROPANE	5	U
594-20-72 2-DICHLOROPROPANE	5	ן די
563-58-61 1-DICHLOROPROPENE	5	ע
87-68-3HEXACHLOROBUTADIENE	5	ן ט
98-82-8ISOPROPYLBENZENE	5	ן ט
99-87-6p-ISOPROPYLTOLUENE	5	ן ט
91-20-3NAPHTHALENE	5	ן ט
103-65-1n-PROPYLBENZENE	5	ן ט
87-61-61 2 3-TRICHLOROBENZENE	5	U
120-82-11 2 4-TRICHLOROBENZENE	5	Ū
	5	Ü
	5	ָ <u>ט</u>
108-67-81 3 5-TRIMETHYLBENZENE	5	TT T
74-97-5BROMOCHLOROMETHANE	1	
		1

Contract: FT. HOOD 10SB109

b Name: SWL-TULSA Contract: FT. HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

itrix: (soil/water) SOIL Lab Sample ID: 28026.03

imple wt/vol: 30.0 (g/mL) G Lab File ID: P10859.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 7 dec. Date Extracted:12/20/96

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

oncentrated Extract Volume: 1000(uL)

PC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

		———I
Plane!	350	וט
108-95-2Phenol	350	וֹט
111-44-4bis(2-Chloroethyl)ether	350	ט
95-57-82-Chlorophenol	350	ŭ
541-73-11,3-Dichlorobenzene	350	וֹט
106-46-71,4-Dichlorobenzene	350	וֹט
100-51-6Benzyl alcohol	350	Ü
95-50-11,2-Dichlorobenzene		اق
95-48-72-Methylphenol	350	ט
108-60-1bis(2-Chloroisopropyl)ether_	350	ט
106-44-54-Methylphenol	350	
621-64-7N-Nitroso-di-n-propylamine	350	U
67-72-1Hexachloroethane	350	U
98-95-3Nitrobenzene	350	ŭ
78-59-1Isophorone	350	U
88-75-52-Nitrophenol	350	ŭ
105-67-92,4-Dimethylphenol	350	ַ
65-85-0Benzoic Acid	1700	U
111-91-1bis(2-Chloroethoxy)methane	350	Ū
120-83-22,4-Dichlorophenol	350	ַ
120-82-11,2,4-Trichlorobenzene	350	U
91-20-3Naphthalene	350	U
106-47-84-Chloroaniline	350	ן ט
87-68-3Hexachlorobutadiene	350	ן ט
59-50-74-Chloro-3-methylphenol	350	ן ט
91-57-62-Methylnaphthalene	350	ן ט
77-47-4Hexachlorocyclopentadiene	350	ַ
88-06-22,4,6-Trichlorophenol	350	ן ט
95-95-42,4,5-Trichlorophenol	1700	
91-58-72-Chloronaphthalene	350	ן ט
88-74-42-Nitroaniline	1700	ן ט
131-11-3Dimethylphthalate	350	ן ט
131-11-3	350	ן ט
208-96-8Acenaphthylene 606-20-22,6-Dinitrotoluene	350	ן ט
000-70-7		

EPA SAMPLE NO.

10SB109

Contract: FT. HOOD tb Name: SWL-TULSA

SDG No.: 28026 SAS No.: ab Code: SWOK Case No.: SAIC

Lab Sample ID: 28026.03 Matrix: (soil/water) SOIL

Lab File ID: P10859.D Sample wt/vol: 30.0 (g/mL) G

Date Received: 12/19/96 (low/med) LOW evel:

Date Extracted: 12/20/96 dec. Moisture: not dec. 7

Date Analyzed: 01/09/97 SONC Extraction: (SepF/Cont/Sonc)

loncentrated Extract Volume: 1000(uL)

COMPOUND

CAS NO.

Dilution Factor: 1.0 pH: 8.0 FPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

ŀ			
	99-09-23-Nitroaniline	1700	U
	83-32-9Acenaphthene	350	ע
l	121-14-22,4-Dinitrotoluene	350	ן ט
l	51-28-52,4-Dinitrophenol	1700	ן ט
l	100-02-74-Nitrophenol	1700	ע
l	132-64-9Dibenzofuran	350	ן ט
1	84-66-2Diethylphthalate	350	ן ט
۱	7005-72-34-Chlorophenyl-phenylether_	350	ן ט
١	86-73-7Fluorene	350	ן ט
	100-01-64-Nitroaniline	1700	ט
	534-52-14,6-Dinitro-2-methylphenol	1700	ט
1	86-30-6N-Nitrosodiphenylamine_(1)	350	ן ט
١	101-55-34-Bromophenylphenylether	350	ן ט
١	118-74-1Hexachlorobenzene	350	וט
١	87-86-5Pentachlorophenol	1700	ן ט
١	85-01-8Phenanthrene	350	ט ו
	120-12-7Anthracene	350	ן ט
l		350	Ū
١	84-74-2Di-n-butylphthalate	350	ا ت
١	206-44-0Fluoranthene	350	انّ
ı	129-00-0Pyrene	350	1 "1
١	85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine	710	, ,
١	91-94-13,3'-Dichioropenziaine	350	
١	56-55-3Benzo(a)anthracene	350	1
١	218-01-9Chrysene	350	
١	117-81-7bis(2-Ethylhexyl)phthalate	350	ال
١	117-84-0Di-n-octylphthalate		
١	205-99-2Benzo(b)fluoranthene	350 350	1 - 1
	207-08-9Benzo(k)fluoranthene		1
	50-32-8Benzo(a)pyrene	350	1 1
	193-39-5Indeno(1,2,3-cd)pyrene	350	
	53-70-3Dibenz(a,h)anthracene	350	1
	191-24-2Benzo(g,h,i)perylene	350	1 - 1
	110-86-1Pyridine	350	ا ۱
	-		11

EPA SAMPLE NO.

10SB109

b Name: SWL-TULSA

Contract: FT. HOOD

ab Code: SWOK

Case No.: SAIC

7

SAS No.:

SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.03

ample wt/vol:

30.0 (g/mL) G

dec.

P10859.D Lab File ID:

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec.

CAS NO.

Date Extracted: 12/20/96

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

oncentrated Extract Volume:

1000(uL)

PC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

95-9403-----1,2,4,5-Tetrachlorobenzene_

350

U

	1		
INORGANIC	ANALYSES	DATA	SHEET

EPA	SAMPLE	NO
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]	INORGANIC A	ANALYSES DATA S	SHE:	ET	LEA SAMPLE	
						02603	
<pre>b Code: SWOK_ trix (soil/wa vel (low/med) Solids:</pre>	Cas ater): SOIL : LOW93.(se No.: 280 - -	Contract: SA D26 SAS No.: /L or mg/kg dry	La Da	b Sampl te Rece	SDG No.: 2 e ID: 28026 ived: 12/19	.03
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Barium Cadmium Chromium Lead Mercury Selenium	4.2 2.0 0.04 1.4 3.1 0.04 0.32 0.20	<u>0</u> - 0		P_ P_ P_ P_ P_ AV P_ P_ -	
olor Before:	BROWN	Clari	Lty Before:			Texture:	MEDIUM
olor After:	YELLOW		ty After:			Artifacts:	

ents: LIENT_ID_=_10SB109_

FORM I - IN ILM02.1

EPA SAMPLE NO.

FHSB201

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

Matrix: (soil/water) SOIL Lab Sample ID: 28026.04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22741.D

Level: (low/med) LOW Date Received: 12/19/96

% Moisture: not dec. 18 Date Analyzed: 12/20/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	666637666666666666666666666666666666666	ממממלמממממממממממממממממממ
127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE	6 4 6 6	U J U

EPA SAMPLE NO.

FHSB201

ab Name: SWL-TULSA

Contract: FT HOOD

ab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 28026

latrix: (soil/water) SOIL

Lab Sample ID: 28026.04

3ample wt/vol:

5.0 (g/mL) G

Lab File ID: I22741.D

Level: (low/med)

LOW

Date Received: 12/19/96

Moisture: not dec. 18

Date Analyzed: 12/20/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND

(uq/L or ug/Kg) UG/KG Q

FHSB201

b Name: SWL-TULSA Contract: FT. HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

trix: (soil/water) SOIL Lab Sample ID: 28026.04

ample wt/vol: 30.0 (g/mL) G Lab File ID: P10860.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 18 dec. Date Extracted: 12/20/96

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

oncentrated Extract Volume: 1000(uL)

PC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

400 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 400 U 400 U 95-57-8----2-Chlorophenol U 400 541-73-1----1,3-Dichlorobenzene U 400 106-46-7----1,4-Dichlorobenzene_ U 400 100-51-6-----Benzyl alcohol U 400 95-50-1----1,2-Dichlorobenzene U 400 95-48-7----2-Methylphenol U 400 108-60-1-----bis(2-Chloroisopropyl)ether U 400 106-44-5----4-Methylphenol U 400 621-64-7----N-Nitroso-di-n-propylamine_ U 400 67-72-1-----Hexachloroethane U 400 98-95-3----Nitrobenzene U 400 78-59-1-----Isophorone U 400 88-75-5----2-Nitrophenol U 400 105-67-9----2,4-Dimethylphenol_ U 2000 65-85-0-----Benzoic Acid 400 U 111-91-1-----bis(2-Chloroethoxy)methane U 400 120-83-2----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ U 400 U 400 91-20-3-----Naphthalene U 400 106-47-8----4-Chloroaniline U 400 87-68-3-----Hexachlorobutadiene U 400 59-50-7----4-Chloro-3-methylphenol_ 400 U 91-57-6----2-Methylnaphthalene 400 U 77-47-4-----Hexachlorocyclopentadiene 400 U 88-06-2----2,4,6-Trichlorophenol U 2000 95-95-4----2,4,5-Trichlorophenol U 400 91-58-7----2-Chloronaphthalene_ U 2000 88-74-4----2-Nitroaniline U 400 131-11-3-----Dimethylphthalate U 400 208-96-8-----Acenaphthylene U 400 606-20-2----2,6-Dinitrotoluene

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FHSB201

b Name: SWL-TULSA Contract: FT. HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28026

atrix: (soil/water) SOIL Lab Sample ID: 28026.04

ample wt/vol: 30.0 (g/mL) G Lab File ID: P10860.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 18 dec. Date Extracted:12/20/96

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

oncentrated Extract Volume: 1000(uL)

PC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAD Ito.	J, J. ,	
99-09-23-Nitroaniline	2000	U
83-32-9Acenaphthene	_	ט
131 14 2 Acenaphthene	- 400	υl
121-14-22,4-Dinitrotoluene	2000	ان
51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol	_ 2000	ΰl
132-64-9Dibenzofuran	- 400	Ŭ
	- 400	Ü
84-66-2Diethylphthalate	- 400	ŭ
7005-72-34-Chlorophenyl-phenylether_	- 400	ŭ
86-73-7Fluorene	- 2000	ŭ
100-01-64-Nitroaniline	- 2000 Z	ŭ
534-52-14,6-Dinitro-2-methylphenol_		וט
86-30-6N-Nitrosodiphenylamine_(1)	$- \begin{vmatrix} 400 \\ 400 \end{vmatrix}$	Ü
101-55-34-Bromophenylphenylether	400	Ü
118-74-1Hexachlorobenzene	- 2000 L	וֹט
87-86-5Pentachlorophenol		Ü
85-01-8Phenanthrene	400	ש
120-12-7Anthracene	400	ט
84-74-2Di-n-butylphthalate	400	
206-44-0Fluoranthene	400	Ü
129-00-0Pyrene	400	ŭ
85-68-7Butvlbenzylphthalate	400	U
91-94-13,3'-Dichlorobenzidine	800	ַ
56-55-3Benzo(a)anthracene	400	U
218-01-9Chrysene	400	ַ
117-81-7bis(2-Ethylhexyl)phthalate	400	ש
117-84-0Di-n-octylphthalate	400	ַ
205-99-2Benzo(b)fluoranthene	400	ן ט
207-08-9Benzo(k)fluoranthene	400	ן ט
50-32-8Benzo(a)pyrene	400	ן ט
193-39-5Indeno(1,2,3-cd)pyrene	400	ן ט
53-70-3Dibenz(a,h)anthracene	400	U
191-24-2Benzo(g,h,i)perylene	400	ן ט
110-86-1Pyridine	400	ן ט
		

EPA SAMPLE NO.

FHSB201

b Name: SWL-TULSA

Contract: FT. HOOD

ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28026

atrix: (soil/water) SOIL

Lab Sample ID: 28026.04

ample wt/vol:

30.0 (g/mL) G

Lab File ID: P10860.D

evel: (low/med) LOW Date Received: 12/19/96

Moisture: not dec. 18

dec.

Date Extracted: 12/20/96

xtraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/09/97

oncentrated Extract Volume:

1000(uL)

PC Cleanup: (Y/N) N

pH: 7.7

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene

400

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1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO

vel (low/med): LOW Date Rece	02604 SDG No.: 28026A e ID: 28026.04 ived: 12/19/96
Solids: _82.5 Concentration Units (ug/L or mg/kg dry weight):	MG/KG

	I		Т		1
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	3.7	-		P
7440-39-3	Barium	31.6			P
7440-43-9	Cadmium	0.09	\overline{B}		P_
7440-47-3	Chromium	7.4			P_
7439-92-1	Lead	4.0	-		P_
7439-97-6	Mercury	0.04	Ū		$A\overline{V}$
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.23	U		P P
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	l l		· — ·
olor Before: olor After:	BROWN	Clarity Before: Clarity After:	Texture: MEDIUM
ents: LIENT_ID_=	_FHSB201		
		FORM I - IN	ILM02.1

Lab File ID: I22767.D

VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB110

Lab Name: SWL-TULSA Contract: FT HOOD

Sample wt/vol: 5.0 (g/mL) G

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.07

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3
108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6O-XYLENE
79-00-5
127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 6 U 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07
156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6XYLENE 6 U

EPA SAMPLE NO.

10SB110

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22767.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec. 21

Date Analyzed: 12/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

Tab Name: SWL-TULSA Contract: FT. HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK868.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

420 U 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether 420 U U 95-57-8----2-Chlorophenol_ 541-73-1----1,3-Dichlorobenzene_ 420 U 420 U 420 106-46-7----1,4-Dichlorobenzene U 420 100-51-6----Benzyl alcohol U 420 95-50-1----1,2-Dichlorobenzene U 420 95-48-7----2-Methylphenol 420 U 108-60-1-----bis(2-Chloroisopropyl)ether_ U 420 106-44-5----4-Methylphenol Ŭ 420 621-64-7----N-Nitroso-di-n-propylamine U 420 67-72-1-----Hexachloroethane U 420 98-95-3----Nitrobenzene U 420 78-59-1-----Isophorone U 420 88-75-5----2-Nitrophenol U 420 105-67-9----2,4-Dimethylphenol U 2000 65-85-0-----Benzoic Acid 420 U 111-91-1-----bis(2-Chloroethoxy)methane 420 U 120-83-2----2,4-Dichlorophenol U 420 120-82-1----1,2,4-Trichlorobenzene_ U 420 91-20-3----Naphthalene U 420 106-47-8----4-Chloroaniline U 420 87-68-3-----Hexachlorobutadiene U 420 59-50-7----4-Chloro-3-methylphenol_ U 420 91-57-6----2-Methylnaphthalene U 420 77-47-4-----Hexachlorocyclopentadiene_ U 420 88-06-2----2,4,6-Trichlorophenol_ U 2000 95-95-4-----2,4,5-Trichlorophenol U 420 91-58-7----2-Chloronaphthalene U 2000 88-74-4----2-Nitroaniline U 420 131-11-3-----Dimethylphthalate 420 U 208-96-8-----Acenaphthylene U 420 606-20-2----2,6-Dinitrotoluene

10SB110 Tab Name: SWL-TULSA Contract: FT. HOOD

SDG No.: 28055 Case No.: SAIC SAS No.: _ab Code: SWOK

Lab Sample ID: 28055.07 Matrix: (soil/water) SOIL

Lab File ID: FFK868.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/21/96 (low/med) LOW Level:

Date Extracted: 12/22/96 % Moisture: not dec. 21 dec.

Date Analyzed: 01/08/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 9.0

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND

99-09-2-	3-Nitroaniline	2000	ט
	Acenaphthene	420	וט
	2,4-Dinitrotoluene	420	U
121-14-2	2,4-Dinitrophenol	2000	Ū
100-02-7	4-Nitrophenol	2000	Ū
	Dibenzofuran	420	Ū
		420	Ū
7005 72	Diethylphthalate 34-Chlorophenyl-phenylether	420	Ū
7005-72-	Fluorene	420	Ū
	4-Nitroaniline	2000	וט
	4,6-Dinitro-2-methylphenol	2000	ŭΙ
534-52-1	N Nitrografinhonylamino (1)	420	Ü
86-30-6-	N-Nitrosodiphenylamine (1)	420	Ŭ
101-55-3	Hexachlorobenzene	420	Ü
	Pentachlorophenol	2000	Ü
	Pentachiotophenoi_	420	ט
		420	บ
	Anthracene	420	บั
	Di-n-butylphthalate	420	บ
	Fluoranthene	420	Ŭ
129-00-0	Pyrene	420	บี
85-68-7-	Butylbenzylphthalate	840	Ŭ
	3,3'-Dichlorobenzidine	420	บั
	Benzo(a)anthracene	420	บ
	Chrysene	420	υ
117-81-7	bis(2-Ethylhexyl)phthalate	420	Ü
117-84-0)Di-n-octylphthalate	420	บั
205-99-2	2Benzo(b)fluoranthene	420	บี
	Benzo(k)fluoranthene	420	ט ו
	Benzo(a)pyrene	420	
193-39-5	5Indeno(1,2,3-cd)pyrene	420	บ็
53-70-3-	Dibenz(a,h)anthracene	420	l \ddot{v}
191-24-2	2Benzo(g,h,i)perylene	420	υ
110-86-1	lPyridine	420	
			l

EPA SAMPLE NO.

10SB110

ab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.07

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: FFK868.D

(low/med) Level:

Date Received: 12/21/96

% Moisture: not dec.

Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc)

SONC

dec.

Date Analyzed: 01/08/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

LOW

21

pH: 9.0

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

420 U 95-94-3----1,2,4,5-Tetrachlorobenzene_

U.S. EPA - CLP

		INODONANTO 7	1 ANALYSES DATA S	ueen	EPA SAMPI	LE NO.
	•	INORGANIC F	MADIOES DAIA S	, i i i i i i i i i i i i i i i i i i i	0550	07
Lab Name: SOUTH Lab Code: SWOK_ Matrix (soil/wa Level (low/med) % Solids:	Car ater): SOIL): LOW78.	se No.: 280 - 6	SAS No.:	Lab Sam Date Re	SDG No.: aple ID: 2809 eceived: 12/3	28055A 55.07
Cor	ncentration	Units (ug	/L or mg/kg dry	y weight	:): MG/KG	
	CAS No.	Analyte	Concentration	C Q	М	
	7440-47-3	Barium Cadmium Chromium Lead Mercury Selenium	5.5 51.3 0.58 10.2 13.9 0.04 0.38 0.24	B	P_ P_ P_ P_ P_ AV P_ P_	
Color Before: Color After:	BROWN_ YELLOW_	Clar:	ity Before: ity After:		Texture: Artifact	MEDIUM
mments:						•

FORM I - IN

10SB111

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.08

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22755.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec. 7

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

124-48-1 79-00-5 71-43-2 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 79-34-5 108-90-7 100-41-4	CHLOROETHANEMETHYLENE CHLORIDEACETONE1 1-DICHLOROETHENE1 1-DICHLOROETHANECHLOROFORM1 2-DICHLOROETHANE1 1 1-TRICHLOROETHANECARBON TETRACHLORIDEBROMODICHLOROMETHANE1 2-DICHLOROPROPANETRICHLOROETHENEDIBROMOCHLOROMETHANE1 1 2-TRICHLOROETHANEBENZENEBROMOFORMBENZENEBROMOFORMTETRACHLOROETHENETETRACHLOROETHENETOLUENETOLUENECHLOROBENZENECHLOROBENZENE		555555555555555555555555555555555555555	מממלמממממ מממממממם ממממ
108-88-3 79-34-5 108-90-7 100-41-4 100-42-5 156-59-2 156-60-5 13-302-07 95-47-6 106-93-4	TOLUENE1 1 2 2-TETRACHLOROETHANECHLOROBENZENEETHYL BENZENE	-	5 5 5	ם ת

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB111

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.08

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I22755.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec. 7

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

			
96-18-4	1 2 3-TRICHLOROPROPANE	5	ט
75-71-8		5	U
75-69-4		5	U
74-95-3		5	ט
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1	<u> </u>	5	Ū
	n-BUTYLBENZENE	5	Ū
	tert-BUTYLBENZENE	5	Ū
	sec-BUTYLBENZENE	5	Ū
	2-CHLOROTOLUENE	5	Ŭ
	4-CHLOROTOLUENE	5	Ŭ
95-50-1		5	Ū
541-73-1		5	l ŭ
, ,,, ,		5	Ŭ
106-46-7		5	l ŭ
142-28-9		5	Ŭ
594-20-7		5	Ŭ
563-58-6		5	l ü
	HEXACHLOROBUTADIENE	5	U
98-82-8	ISOPROPYLBENZENE	5	U
	p-ISOPROPYLTOLUENE	5 5	ט ט
91-20-3			U
103-65-1		5	_
87-61-6		5	U
120-82-1		5	ט
95-63-6	1 2 4-TRIMETHYLBENZENE	5	ט
108-67-8	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5	BROMOCHLOROMETHANE	5	U
		<u> </u>	

10SB111

Contract: FT. HOOD b Name: SWL-TULSA

SDG No.: 28055 Case No.: SAIC SAS No.: Lab Code: SWOK

Lab Sample ID: 28055.08 Matrix: (soil/water) SOIL

FFK869.D Lab File ID: 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/21/96 (low/med) LOW Level:

Date Extracted: 12/22/96 dec. % Moisture: not dec. 7

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

1000(uL) Concentrated Extract Volume:

COMPOUND

88-06-2----2,4,6-Trichlorophenol

95-95-4-----2,4,5-Trichlorophenol 91-58-7----2-Chloronaphthalene__

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

131-11-3-----Dimethylphthalate

606-20-2----2,6-Dinitrotoluene

CAS NO.

Dilution Factor: 1.0 pH: 9.0 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/KG

350 U 108-95-2----Phenol 350 U 111-44-4-----bis(2-Chloroethyl)ether U 350 95-57-8----2-Chlorophenol U 350 541-73-1----1,3-Dichlorobenzene U 350 106-46-7----1,4-Dichlorobenzene_ U 350 100-51-6-----Benzyl alcohol U 350 95-50-1----1,2-Dichlorobenzene U 350 95-48-7----2-Methylphenol 108-60-1-----bis(2-Chloroisopropyl)ether_ 350 U 350 U 106-44-5----4-Methylphenol U 350 621-64-7----N-Nitroso-di-n-propylamine_ U 350 67-72-1-----Hexachloroethane U 350 98-95-3----Nitrobenzene U 350 78-59-1-----Isophorone U 350 88-75-5----2-Nitrophenol U 350 105-67-9-----2,4-Dimethylphenol_ U 1700 65-85-0-----Benzoic Acid U 350 111-91-1-----bis(2-Chloroethoxy)methane U 350 120-83-2----2,4-Dichlorophenol U 350 120-82-1----1,2,4-Trichlorobenzene U 350 91-20-3----Naphthalene U 350 106-47-8----4-Chloroaniline U 350 87-68-3-----Hexachlorobutadiene U 350 59-50-7----4-Chloro-3-methylphenol U 350 91-57-6----2-Methylnaphthalene U 350 77-47-4-----Hexachlorocyclopentadiene

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350

350

350

350

350

1700

1700

Tab Name: SWL-TULSA Contract: FT. HOOD

10SB111

AD Name . Shi Iondi

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK869.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 7 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	oo oo o	1700	וט
	99-09-23-Nitroaniline	350	Ü
	83-32-9Acenaphthene	350	ŭ
	121-14-22,4-Dinitrotoluene	1700	ŭ
	51-28-52,4-Dinitrophenol	1700	ŭ
l	100-02-74-Nitrophenol	350	บั
l	132-64-9Dibenzofuran	350	ŭ
١	84-66-2Diethylphthalate	350 350	Ü
l	7005-72-34-Chlorophenyl-phenylether_		
l	86-73-7Fluorene	350	Ü
١	100-01-64-Nitroaniline	1700	U
١	534-52-14,6-Dinitro-2-methylphenol_	1700	ש
1	86-30-6N-Nitrosodiphenylamine_(1)	350	U
	86-30-6N-Nitrosodiphenylamine_(1) 101-55-34-Bromophenylphenylether	350	וט
	118-74-1Hexachlorobenzene	350	ַ
	87-86-5Pentachlorophenol	1700	ַ
1	85-01-8Phenanthrene	350	บ
	120-12-7Anthracene	350	ַ ד
١	84-74-2Di-n-butylphthalate	350	ן ט
1	206-44-0Fluoranthene	350	ַ
1	129-00-0Pyrene	350	U
١	85-68-7Butylbenzylphthalate	350	ע
	91-94-13,3'-Dichlorobenzidine	710	ן ט
1	56-55-3Benzo(a)anthracene	350	ן ט
١	218-01-9Chrysene	350	ן ט
١	117-81-7bis(2-Ethylhexyl)phthalate	350	ט
-	117-84-0Di-n-octylphthalate	350	ן ט
١	205-99-2Benzo(b)fluoranthene	350	ן ט
١	205-99-2Benzo(b)fluoranthene	350	ט ו
١	207-08-9Benzo(k)fluoranthene	350	Ū
İ	50-32-8Benzo(a)pyrene	350	
١	193-39-5Indeno(1,2,3-cd)pyrene	350	ט ט
١	53-70-3Dibenz(a,h)anthracene	350	l ü
	191-24-2Benzo(g,h,i)perylene	350	l ü
1	110-86-1Pyridine	.] 350	"
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EPA SAMPLE NO.

10SB111

Tab Name: SWL-TULSA

Contract: FT. HOOD

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.08

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

FFK869.D

7

Date Received: 12/21/96

Level:

(low/med) LOW

Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc) SONC

dec.

Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup:

(Y/N)N

pH: 9.0

Dilution Factor: 1.0

CAS NO.

% Moisture: not dec.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

350

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO	EPA	SAMPLE	NO
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		•		05508
ab Name: SOUTHWEST_1 ab Code: SWOK latrix (soil/water): level (low/med): solids:	Case No.:	Contract: SA 28055 SAS No.	: Lab Sample	SDG No.: 28055A E ID: 28055.08 ived: 12/21/96

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					1
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	4.6	-		P
7440-38-2	Barium	2.3	-		P-
7440-33-3	Cadmium	0.04	ਰ		P P P
			١٠		B-
7440-47-3	Chromium_	2.0	-		5-1
7439-92-1	Lead		==		ĀV
7439-97-6	Mercury_	0.04			AV
7782-49-2	Selenium_	0.32			P P
7440-22-4	Silver	0.20	U		P_
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Color Before: Color After:	BROWN	Clarity Befor Clarity After		Texture: Artifacts:	MEDIUN
mments: CLIENT_ID_=	_10SB111				
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				IL	M02.1

10SB112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22768.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3 CHLOROMETHANE 6 U 74-83-9 BROMOMETHANE 6 U 75-01-4 VINYL CHLORIDE 6 U 75-00-3 CHLOROETHANE 6 U 75-09-2 METHYLENE CHLORIDE 3 J 67-64-1 ACETONE 8 - 75-35-4 1 1 - DICHLOROETHENE 6 U 67-66-3 CHLOROFORM 6 U 107-06-2 1 2 - DICHLOROETHANE 6 U 78-93-3 2-BUTANONE 6 U 71-55-6 1 1 1 - TRICHLOROETHANE 6 U 75-27-4 BROMDDICHLOROMETHANE 6 U 78-87-5 1 2 - DICHLOROPROPANE 6 U 78-87-5 1 2 - DICHLOROPROPANE 6 U 79-01-6 TRICHLOROETHENE 6 U 12-48-1 - DIBROMOCHLOROMETHANE 6 U 79-02-5 1 1 2 - TRICHLOROETHANE 6 U 75-25-2 - BROMOFORM 6 U 108-10-1 4 - METHYL-2 - PENTANONE 6 U 108-84			TT
T5-01-4VINYL CHLORIDE			
75-00-3			
T5-09-2METHYLENE CHLORIDE			
1			
75-35-41 1-DICHLOROETHENE 75-34-31 1-DICHLOROETHANE 6 U 67-66-3			١
T5-34-3			
67-66-3			
107-06-21 2-DICHLOROETHANE			
78-93-32-BUTANONE 71-55-61 1 1-TRICHLOROETHANE 56-23-5BROMODICHLOROMETHANE 78-87-5BROMODICHLOROMETHANE 78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 124-48-1DIBROMOCHLOROMETHANE 79-00-51 1 2-TRICHLOROETHANE 79-00-51 1 2-TRICHLOROETHANE 75-25-2BROMOFORM 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-31 1 2 2-TETRACHLOROETHANE 108-89-7			
71-55-61 1 1-TRICHLOROETHANE 6 U 56-23-5CARBON TETRACHLORIDE 6 U 75-27-4BROMODICHLOROMETHANE 6 U 78-87-51 2-DICHLOROPROPANE 6 79-01-6TRICHLOROETHENE 6 U 79-01-5		_	
Temperature Temperature	, , , , , , , , , , , , , , , , , , , ,		
75-27-4		_	
78-87-5			
79-01-6TRICHLOROETHENE 6 U 124-48-1DIBROMOCHLOROMETHANE 6 U 79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 6 U 100-41-4STYRENE 6 U 156-59-2Cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07		=	
124-48-1DIBROMOCHLOROMETHANE 6 U 79-00-5	, 0 0, 5		
79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 108-90-7CHLOROBENZENE 6 U 100-41-4ETHYL BENZENE 6 U 156-59-2STYRENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 13-302-07m,p-XYLENES 6 U 95-47-6	73 02 0		
71-43-2BENZENE 75-25-2BROMOFORM 108-10-14-METHYL-2-PENTANONE 591-78-62-HEXANONE 127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6			
75-25-2		-	
108-10-14-METHYL-2-PENTANONE 6 591-78-62-HEXANONE 6 127-18-4TETRACHLOROETHENE 6 108-88-3TOLUENE 6 79-34-51 1 2 2-TETRACHLOROETHANE 6 108-90-7CHLOROBENZENE 6 100-41-4ETHYL BENZENE 6 100-42-5STYRENE 6 156-59-2cis-1 2-DICHLOROETHENE 6 13-302-07m,p-XYLENES 6 95-47-6			
591-78-62-HEXANONE 6 127-18-4TETRACHLOROETHENE 6 108-88-3TOLUENE 6 79-34-51 1 2 2-TETRACHLOROETHANE 6 108-90-7CHLOROBENZENE 6 100-41-4ETHYL BENZENE 6 100-42-5STYRENE 6 156-59-2cis-1 2-DICHLOROETHENE 6 156-60-5trans-1 2-DICHLOROETHENE 6 13-302-07			
127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 6 U 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6		l.	
108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-60-XYLENE 106-93-41 2-DIBROMOETHANE		·	
79-34-5			
108-90-7CHLOROBENZENE 6 U 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6XYLENE 6 U 106-93-41 2-DIBROMOETHANE 6 U		1	
100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6		-	
100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5m,p-XYLENES 6 U 95-47-6		1	
156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6		1	
156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6			
13-302-07m,p-XYLENES 6 U 95-47-6		1	
95-47-6			
106-93-41 2-DIBROMOETHANE 6 U			
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630-20-61 1 1 2-TETRACHLOROETHANE 6 U		1	
	630-20-61 1 1 2-TETRACHLOROETHANE	6	1 0

10SB112

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22768.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-71-8 75-69-4 74-95-3 96-12-8 108-86-1 98-06-6 135-98-8 95-49-8 106-43-4 95-50-1 541-73-1 142-28-9 542-28-9 563-58-6 87-68-3 98-82-8	1 2-DIBROMO-3-CHLOROPROPANEBROMOBENZENEn-BUTYLBENZENEtert-BUTYLBENZENEsec-BUTYLBENZENE2-CHLOROTOLUENE1 2-DICHLOROBENZENE1 3-DICHLOROBENZENE1 3-DICHLOROBENZENE1 3-DICHLOROPROPANE1 1-DICHLOROPROPANE2 2-DICHLOROPROPANE1 1-DICHLOROPROPENE1 1-DICHLOROBUTADIENEISOPROPYLBENZENE		ממממממממממממממ
563-58-6 87-68-3 98-82-8 99-87-6 91-20-3 103-65-1 87-61-6	1 1-DICHLOROPROPENEHEXACHLOROBUTADIENEISOPROPYLBENZENEP-ISOPROPYLTOLUENENAPHTHALENEn-PROPYLBENZENE1 2 3-TRICHLOROBENZENE	0000000	ט ט ט ט
95-63-6 108-67-8		6 6 6	ט ט ט

10SB112

Tab Name: SWL-TULSA Contract: FT. HOOD

...ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK870.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.1 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

380 II 108-95-2----Phenol U 380 111-44-4----bis(2-Chloroethyl)ether_ U 380 95-57-8----2-Chlorophenol U 380 541-73-1----1,3-Dichlorobenzene U 380 106-46-7----1,4-Dichlorobenzene_ U 380 100-51-6-----Benzyl alcohol U 380 95-50-1----1,2-Dichlorobenzene U 380 95-48-7----2-Methylphenol U 380 108-60-1-----bis(2-Chloroisopropyl)ether_ 380 U 106-44-5----4-Methylphenol 380 U 621-64-7----N-Nitroso-di-n-propylamine 380 U 67-72-1-----Hexachloroethane__ U 380 98-95-3----Nitrobenzene U 380 78-59-1-----Isophorone U 380 88-75-5----2-Nitrophenol U 380 105-67-9----2,4-Dimethylphenol U 1800 65-85-0-----Benzoic Acid U 380 111-91-1-----bis(2-Chloroethoxy)methane U 380 120-83-2----2,4-Dichlorophenol U 380 120-82-1----1,2,4-Trichlorobenzene_ U 380 91-20-3----Naphthalene U 380 106-47-8-----4-Chloroaniline U 380 87-68-3-----Hexachlorobutadiene U 380 59-50-7----4-Chloro-3-methylphenol U 380 91-57-6----2-Methylnaphthalene U 380 77-47-4-----Hexachlorocyclopentadiene U 380 88-06-2----2,4,6-Trichlorophenol U 1800 95-95-4-----2,4,5-Trichlorophenol U 380 91-58-7----2-Chloronaphthalene_ U 1800 88-74-4----2-Nitroaniline U 380 131-11-3-----Dimethylphthalate 380 U 208-96-8-----Acenaphthylene 380 606-20-2----2,6-Dinitrotoluene_

Contract: FT. HOOD

10SB112

Tab Name: SWL-TULSA

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.09

Lab File ID:

FFK870.D

Sample wt/vol:

ыab Code: SWOK

30.0 (g/mL) G

Level:

(low/med) LOW Date Received: 12/21/96

% Moisture: not dec.

dec. 12

Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc)

Date Analyzed: 01/08/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 9.1

SONC

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

99-09-23-NLTOMITTHE 33-32-9Acenaphthene 121-14-22,4-Dinitrotoluene 1800 100-02-74-Nitrophenol 132-64-9Dibenzofuran 380 84-66-2Dibenzofuran 380 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 380 100-01-64-Nitroaniline 100-01-64-Nitroaniline 100-01-64-Nitrosodiphenylamine 100-01-55-34-Bromophenylphenylether 380 118-74-1Hexachlorobenzene 118-74-1Hexachlorobenzene 380 87-86-5Pentachlorophenol 380 85-01-8Phenanthrene 380 120-12-7Anthracene 380 84-74-2Di-n-butylphthalate 380 206-44-0Fluoranthene 380 206-44-0Fluoranthene 380 218-01-9Chrysene 117-81-7bis(2-Ethylhexyl)phthalate 380 218-01-9				t
R4-66-2	83-32-9 121-14-2 51-28-5 100-02-7 132-64-9	Acenaphthene	380 380 1800 1800 380	ט ט ט ט ט
118-74-1	7005-72-3 86-73-7 100-01-6 534-52-1	4-Chlorophenyl-phenylether	380 380 1800 1800 380 380	ט ט ט ט
129-00-0	118-74-1 87-86-5 85-01-8 120-12-7 84-74-2 206-44-0	HexachlorobenzenePentachlorophenolPhenanthreneAnthraceneDi-n-butylphthalateFluoranthene	1800 380 380 380 380 380	บ บ บ บ
205-99-2Benzo(b) littoranthene 207-08-9Benzo(k) fluoranthene 50-32-8Benzo(a) pyrene 193-39-5Indeno(1,2,3-cd) pyrene 53-70-3Dibenz(a,h) anthracene 101-24-2Benzo(a,b,i) perylene 380 380 380 380 380 380 380 380 380 380	85-68-7 91-94-1 56-55-3 218-01-9 117-81-7	Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phthalate Di-n-octylphthalate	380 750 380 380 380 380	ט ט ט ט
110-86-1Pyridine	207-08-9 50-32-8 193-39-5 53-70-3 191-24-2	Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	380 380 380 380	บ บ บ บ

EPA SAMPLE NO.

10SB112

ab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.09

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: FFK870.D

Level: (low/med)

Date Received: 12/21/96

% Moisture: not dec. 12

dec.

Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc) SONC

LOW

Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 9.1

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

380

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U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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			05509
Lab Name: SOUTHWEST_I Lab Code: SWOK	Case No.: 28055	Lab Samp	SDG No.: 28055A Le ID: 28055.09 eived: 12/21/96
Level (low/med): % Solids:	LOW _87.5	Date Rec	erveu: 12/21/96

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2 7440-39-3	Arsenic Barium	4.3 26.5			P_P
7440-43-9 7440-47-3	Cadmium_ Chromium	0.09	B		P P
7439-92-1	Lead	5.6	- -		P A∇
	Mercury	0.04	U		P
7440-22-4	Silver	0.22	U		P_
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	Before: After:	BROWN	Clarity Before:	Texture: Artifacts:	MEDIUM
mmer CLI	nts: ENT_ID_=	_10SB112	·		
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Contract: FT HOOD

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22757.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

			
74-87-3	CHLOROMETHANE	6	ט
, _ 0, 0	BROMOMETHANE	- 6	ן ט
	VINYL CHLORIDE	6	ן ט
	CHLOROETHANE	6	ا ت
, 5	METHYLENE CHLORIDE	14	
67-64-1		37	
75-35-4		- 6	Ū
75-34-3	1 1-DICHLOROETHANE	- 6	ן ט
	CHLOROFORM	- 6	ן ט
107-06-2		- 6	ا ت
78-93-3	2-BUTANONE	- 6	ן ט
71-55-6	1 1 1-TRICHLOROETHANE	- 6	ال ا
56-23-5		- 6	ן ט
75-27-4		- 6	ן ט
78-87-5		- 6	ן ט
, , , ,	TRICHLOROETHENE	- 6	ן ט
	DIBROMOCHLOROMETHANE	- 6	ן ט
	1 1 2-TRICHLOROETHANE	- 6	ן ט
71-43-2		6	U
	BROMOFORM	- 6	U
108-10-1		- 6	U
	2-HEXANONE	.6	U
127-18-4		⁻ 6	U
108-88-3		⁻ 6	U
79-34-5		- 6	U
	CHLOROBENZENE	⁻ 6	U
	ETHYL BENZENE	- 6	U
100-42-5		- 6	U
156-59-2		- 6	U
	trans-1 2-DICHLOROETHENE	- 6	U U
== = -	m,p-XYLENES	- 6	U
	O-XYLENE	- 6	
	1 2-DIBROMOETHANE	- 6	1
630-20-6		-	1
030-20-0		-	
			.

10SB113

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.10

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22757.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		•
96-18-41 2 3-TRICHLOROPROPANE	6	U
75-71-8DICHLORODIFLUOROMETHANE	6	υl
75-69-4TRICHLOROFLUOROMETHANE	6	ן ט
74-95-3DIBROMOMETHANE	6	U
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	ַ ט
108-86-1BROMOBENZENE	6	U
104-51-8n-BUTYLBENZENE	6	ַע
98-06-6tert-BUTYLBENZENE	6	ן ט
135-98-8sec-BUTYLBENZENE	6	וט
95-49-82-CHLOROTOLUENE	6	ט
106-43-44-CHLOROTOLUENE	6	ט
95-50-11 2-DICHLOROBENZENE	6	U
541-73-11 3-DICHLOROBENZENE	6	וט
106-46-71 4-DICHLOROBENZENE	6	ן ט
142-28-91 3-DICHLOROPROPANE	6	U
594-20-72 2-DICHLOROPROPANE	6	ן ט
563-58-61 1-DICHLOROPROPENE	6	U
87-68-3HEXACHLOROBUTADIENE	6	U
98-82-8ISOPROPYLBENZENE	6	IJ
99-87-6p-ISOPROPYLTOLUENE_	6	U
91-20-3NAPHTHALENE	6	ַ ד
103-65-1n-PROPYLBENZENE	. 6	U
87-61-61 2 3-TRICHLOROBENZENE	6	Ū
120-82-11 2 4-TRICHLOROBENZENE	6	Ŭ
	6	Ŭ
95-63-61 2 4-TRIMETHYLBENZENE 108-67-81 3 5-TRIMETHYLBENZENE	6	IJ
	. 6	Ū
74-97-5BROMOCHLOROMETHANE	.	
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10SB113

Tab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK871.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

Q (ug/L or ug/Kg) UG/KG COMPOUND CAS NO. 380 U 108-95-2----Phenol 380 U 111-44-4-----bis(2-Chloroethyl)ether U 380 95-57-8----2-Chlorophenol U 380 541-73-1----1,3-Dichlorobenzene U 380 106-46-7----1,4-Dichlorobenzene_ U 380 100-51-6----Benzyl alcohol U 380 95-50-1----1,2-Dichlorobenzene U 380 95-48-7----2-Methylphenol 380 U 108-60-1-----bis(2-Chloroisopropyl)ether 380 U 106-44-5----4-Methylphenol U 380 621-64-7----N-Nitroso-di-n-propylamine_ U 380 67-72-1-----Hexachloroethane_ U 380 98-95-3----Nitrobenzene U 380 78-59-1-----Isophorone U 380 88-75-5----2-Nitrophenol U 380 105-67-9----2,4-Dimethylphenol_ U 1800 65-85-0-----Benzoic Acid U 380 111-91-1----bis(2-Chloroethoxy)methane U 380 120-83-2----2,4-Dichlorophenol U 380 120-82-1----1,2,4-Trichlorobenzene_ U 380 91-20-3----Naphthalene U 380 106-47-8-----4-Chloroaniline U 380 87-68-3-----Hexachlorobutadiene Ū 380 59-50-7----4-Chloro-3-methylphenol U 380 91-57-6----2-Methylnaphthalene U 380 77-47-4----Hexachlorocyclopentadiene U 380 88-06-2----2,4,6-Trichlorophenol U 1800 95-95-4-----2,4,5-Trichlorophenol_ U 380 91-58-7----2-Chloronaphthalene_ U 1800 88-74-4----2-Nitroaniline U 380 131-11-3-----Dimethylphthalate U 380 208-96-8-----Acenaphthylene 380 606-20-2----2,6-Dinitrotoluene

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Tab Name: SWL-TULSA Contract: FT. HOOD _____

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK871.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 12 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1800 U 99-09-2----3-Nitroaniline 380 U 83-32-9-----Acenaphthene U 380 121-14-2----2,4-Dinitrotoluene_ U 1800 51-28-5-----2,4-Dinitrophenol_ U 1800 100-02-7----4-Nitrophenol U 380 132-64-9-----Dibenzofuran U 380 84-66-2-----Diethylphthalate U 380 7005-72-3----4-Chlorophenyl-phenylether U 380 86-73-7-----Fluorene U 1800 100-01-6----4-Nitroaniline 1800 U 534-52-1-----4,6-Dinitro-2-methylphenol_ U 380 86-30-6----N-Nitrosodiphenylamine_(1)_ 380 U 101-55-3----4-Bromophenylphenylether_ U 380 118-74-1-----Hexachlorobenzene 1800 U 87-86-5-----Pentachlorophenol 380 U 85-01-8-----Phenanthrene U 380 120-12-7-----Anthracene U 380 84-74-2-----Di-n-butylphthalate U 380 206-44-0----Fluoranthene U 380 129-00-0----Pyrene U 380 85-68-7-----Butylbenzylphthalate 750 U 91-94-1----3,3'-Dichlorobenzidine U 380 56-55-3----Benzo(a)anthracene U 380 218-01-9-----Chrysene U 380 117-81-7-----bis(2-Ethylhexyl)phthalate U 380 117-84-0----Di-n-octylphthalate U 380 205-99-2----Benzo(b)fluoranthene U 380 207-08-9----Benzo(k)fluoranthene_ U 380 50-32-8-----Benzo(a)pyrene U 380 193-39-5----Indeno(1,2,3-cd)pyrene_ Ū 380 53-70-3-----Dibenz(a,h)anthracene_ U 380 191-24-2----Benzo(g,h,i)perylene_ U 380 110-86-1-----Pyridine

EPA SAMPLE NO.

10SB113

Tab Name: SWL-TULSA

Contract: FT. HOOD

⊿b Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.10

Sample wt/vol:

30.0 (g/mL) G

Lab File ID:

FFK871.D

Date Received: 12/21/96

Level:

(low/med) LOW

Concentrated Extract Volume:

Date Extracted: 12/22/96

% Moisture: not dec. 12

SONC

dec.

Date Analyzed: 01/08/97

Extraction: (SepF/Cont/Sonc)

1000(uL)

GPC Cleanup: (Y/N) N

pH: 9.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

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U.S. EPA - CLP

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INORGANIC	ANALYSES	DATA	SHEET

EPA SAMPLE NO.

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Lab Name: SOUTHWEST_LAB_OF_OK____ Contract: SAIC Lab Code: SWOK___ Case No.: 28055 SAS No.: _

SDG No.: 28055A

ILM02.1

Matrix (soil/water): SOIL_

Level (low/med): LOW

Lab Sample ID: 28055.10_ Date Received: 12/21/96

_87.8 % Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

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CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	3.7	-		$\overline{\mathtt{P}_{-}}$
7440-39-3	Barium	7.2	_	-	P_
7440-43-9	Cadmium	0.05	ਹ		P_
7440-47-3	Chromium	4.8	_		P_
7439-92-1	Lead	6.6			P_
7439-97-6	Mercury	0.04			ΑV
7782-49-2	Selenium	0.34	U		P_ P
7440-22-4	Silver	0.22	U		P_
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Color B Color A		BROWN	Clarity Clarity	Before: After:	Texture: Artifacts:	MEDIUM
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EPA SAMPLE NO.

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB114

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22758.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 7 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	5	ט
74-83-9BROMOMETHANE	5	Ŭ
75-01-4VINYL CHLORIDE	5	U
75-00-3CHLOROETHANE	5	ע
75-09-2METHYLENE CHLORIDE	10	
67-64-1ACETONE	800	E
75-35-41 1-DICHLOROETHENE	. 5	ע ו
75-34-31 1-DICHLOROETHANE	5	ע
67-66-3CHLOROFORM	5	יט
107-06-21 2-DICHLOROETHANE	5	ט
78-93-32-BUTANONE	5	ប
71-55-61 1 1-TRICHLOROETHANE	5	U
56-23-5CARBON TETRACHLORIDE	5	U
75-27-4BROMODICHLOROMETHANE	5	ען
78-87-51 2-DICHLOROPROPANE	5	ן ט
79-01-6TRICHLOROETHENE	11	1
124-48-1DIBROMOCHLOROMETHANE	5	Ū
79-00-51 1 2-TRICHLOROETHANE	5	ן ט
71-43-2BENZENE	5	U
75-25-2BROMOFORM	5	וט
108-10-14-METHYL-2-PENTANONE	5	U
591-78-62-HEXANONE	5	ן ט
127-18-4TETRACHLOROETHENE	5	U
108-88-3TOLUENE	15	
79-34-51 1 2 2-TETRACHLOROETHANE	5	Ū
108-90-7CHLOROBENZENE	5	ש
100-41-4ETHYL BENZENE	5	וט
100-42-5STYRENE	5	ט
156-59-2cis-1 2-DICHLOROETHENE	5	ן ט
156-60-5trans-1 2-DICHLOROETHENE	5	U
13-302-07m, p-XYLENES	5	וט
95-47-6O-XYLENE	5	ן ט
106-93-41 2-DIBROMOETHANE	5	<u>ט</u>
630-20-61 1 1 2-TETRACHLOROETHANE	5	Ū
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VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB114

Lab Name: SWL-TULSA

Contract: FT HOOD

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Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.11

Sample wt/vol:

5.0 (q/mL) G

Lab File ID: I22758.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec. 7

91-20-3-----NAPHTHALENE

103-65-1----n-PROPYLBENZENE

87-61-6-----1 2 3-TRICHLOROBENZENE

120-82-1----1 2 4-TRICHLOROBENZENE

95-63-6----1 2 4-TRIMETHYLBENZENE

108-67-8-----1 3 5-TRIMETHYLBENZENE

74-97-5-----BROMOCHLOROMETHANE

Date Analyzed: 12/27/96

(ug/L or ug/Kg) UG/KG Q

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE U 75-71-8-----DICHLORODIFLUOROMETHANE 5 U 75-69-4----TRICHLOROFLUOROMETHANE 5 U 74-95-3-----DIBROMOMETHANE 5 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE U 5 U 108-86-1-----BROMOBENZENE 5 U 104-51-8----n-BUTYLBENZENE 5 U 98-06-6-----tert-BUTYLBENZENE 5 U 135-98-8-----sec-BUTYLBENZENE 5 U 95-49-8----2-CHLOROTOLUENE 5 U 106-43-4----4-CHLOROTOLUENE 5 U 95-50-1----- 2-DICHLOROBENZENE 5 U 541-73-1----1 3-DICHLOROBENZENE 5 U 106-46-7----- 4-DICHLOROBENZENE 5 U 142-28-9----- 3-DICHLOROPROPANE 5 U 594-20-7----2 2-DICHLOROPROPANE 5 U 563-58-6-----1 1-DICHLOROPROPENE 5 U 87-68-3-----HEXACHLOROBUTADIENE 5 Ū 98-82-8-----ISOPROPYLBENZENE 5 U 99-87-6----p-ISOPROPYLTOLUENE

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VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB114DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.11DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: I22769.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 7 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE			27	U
	BROMOMETHANE			27	U
	VINYL CHLORIDE			27	U
	CHLOROETHANE			27	U
	METHYLENE CHLORIDE			42	D
67-64-1				420	D
	1 1-DICHLOROETHENE			27	U
	1 1-DICHLOROETHANE			27	U
	CHLOROFORM			27	U
	1 2-DICHLOROETHANE			27	U
	2-BUTANONE			27	U
	1 1 1-TRICHLOROETHANE			27	U
	CARBON TETRACHLORIDE			27	U
	BROMODICHLOROMETHANE			27	U
	1 2-DICHLOROPROPANE			27	U
	TRICHLOROETHENE			27	U
	DIBROMOCHLOROMETHANE			27	U
	1 1 2-TRICHLOROETHANE			27	U
71-43-2				27	U
· -	BROMOFORM			27	U
	4-METHYL-2-PENTANONE			27	U
	2-HEXANONE			27	U
	TETRACHLOROETHENE			27	Ŭ
108-88-3			14	16	JD
	1 1 2 2-TETRACHLOROETHA	NE		27	U
	CHLOROBENZENE			27	U
	ETHYL BENZENE			27	Ŭ
100-42-5				27	Ū
156-59-2	cis-1 2-DICHLOROETHENE			27	U
156-60-5	trans-1 2-DICHLOROETHER	NE		27	Ū
	m,p-XYLENES			27	U
	O-XYLENE			27	U
	1 2-DIBROMOETHANE			27	U
	1 1 1 2-TETRACHLOROETHA	ANE		27	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB114DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.11DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: I22769.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 7 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

10SB114 Contract: FT. HOOD

Tab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK872.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 7 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

108-95-2Phenol	350	וט
111-44-4bis(2-Chloroethyl)ether	350	וֹט
95-57-82-Chlorophenol	350	וט
541-73-11,3-Dichlorobenzene	350	Ü
106-46-71,4-Dichlorobenzene	350	וֹט
100-51-6Benzyl alcohol	350	ان
95-50-11,2-Dichlorobenzene	350	ŭ
95-48-72-Methylphenol	350	ŭ
95-48-7Z-Methylphenor	350	ŭ
108-60-1bis(2-Chloroisopropyl)ether_	350	ŭ
106-44-54-Methylphenol	350	บั
621-64-7N-Nitroso-di-n-propylamine	350	וט
67-72-1Hexachloroethane	350	Ü
98-95-3Nitrobenzene	350	מ
78-59-1Isophorone	l l	- 1
88-75-52-Nitrophenol	350	Ŭ
105-67-92,4-Dimethylphenol	350	U
65-85-0Benzoic Acid	1700	Ū
111-91-1bis(2-Chloroethoxy)methane	350	ט
120-83-22,4-Dichlorophenol	350	ַ
120-82-11,2,4-Trichlorobenzene	350	U
91-20-3Naphthalene	350	U
106-47-84-Chloroaniline	350	ט
87-68-3Hexachlorobutadiene	350	U
59-50-74-Chloro-3-methylphenol	350	ប
91-57-62-Methylnaphthalene	350	ប
77-47-4Hexachlorocyclopentadiene	350	U
88-06-22,4,6-Trichlorophenol	350	ש
95-95-42,4,5-Trichlorophenol	1700	ប
91-58-72-Chloronaphthalene	350	ט ו
88-74-42-Nitroaniline	1700	י ד
131-11-3Dimethylphthalate	350	ט
	350	U
208-96-8Acenaphthylene 606-20-22,6-Dinitrotoluene	350	Ū
000-20-22,0-Difficiocordene		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB114 Contract: FT. HOOD ab Name: SWL-TULSA

SDG No.: 28055 Case No.: SAIC SAS No.: Lab Code: SWOK

Lab Sample ID: 28055.11 Matrix: (soil/water) SOIL

Lab File ID: FFK872.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/21/96 Level: (low/med) LOW

Date Extracted: 12/22/96 7 dec. % Moisture: not dec.

Date Analyzed: 01/08/97 Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7.4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

99-09-23-Nitroaniline 83-32-9Acenaphthene 121-14-22,4-Dinitrotoluene 51-28-52,4-Dinitrophenol 100-02-74-Nitrophenol 132-64-9Dibenzofuran 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether 86-73-7Fluorene 100-01-64-Nitroaniline 534-52-14,6-Dinitro-2-methylphenol 86-30-6N-Nitrosodiphenylamine (1) 101-55-34-Bromophenylphenylether 118-74-1Hexachlorobenzene 87-86-5Pentachlorophenol 85-01-8	1700 350 350 1700 1700 350 350 350 350 350 350 350 350 350 3	ומממלממממממממממממממממממ
218-01-9Chrysene 117-81-7bis(2-Ethylhexyl)phthalate 117-84-0Di-n-octylphthalate 205-99-2Benzo(b)fluoranthene	120 350 350	J U U
	<u> </u>	l <u> </u>

EPA SAMPLE NO.

10SB114

Tab Name: SWL-TULSA

Contract: FT. HOOD

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.11

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: FFK872.D

Level: (low/med) Date Received: 12/21/96

% Moisture: not dec.

CAS NO.

7 dec. Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc)

SONC

LOW

Date Analyzed: 01/08/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N)N

pH: 7.4

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene_

350

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U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	~~	RATE	7.7	$\lambda T \cap$
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Lab Name: SOUTHWEST I	LAB OF OK Co	ntract: SAIC	05511
Lab Code: SWOK			SDG No.: 28055A e ID: 28055.11
Level (low/med): & Solids:	LOW	Date Rece	ived: 12/21/96

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	4.5	-		P
7440-39-3	Barium	1.9	-		P-
7440-43-9	Cadmium	0.04	ਹਿ		P
7440-47-3	Chromium	1.5	١١		P
7439-92-1	Lead	2.6	-		P-
7439-97-6	Mercury	0.04	ਹ		ΑV
7782-49-2	Selenium	0.32	U		P
7440-22-4	Silver	0.20	ַ		P_
					
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Color Before: Color After:	GREY	Clarity Before:	Texture: MEDIUM Artifacts:
mments: CLIENT_ID	_=_10SB114		
		FORM I - IN	

VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB115

SDG No.: 28055

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: 28055.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22770.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 16 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE		6	ָּט
74-83-9		_	6	υ
75-01-4		_	6	ע
75-00-3		_	6	U
75-09-2	METHYLENE CHLORIDE		.0	
67-64-1	ACETONE	[]	9 _	
75-35-4	1 1-DICHLOROETHENE	_ }	6	Ū
75-34-3	1 1-DICHLOROETHANE		6	ן ט
67-66-3	CHLOROFORM	_	6	ן ט
107-06-2	1 2-DICHLOROETHANE	-	6	U
78-93-3		-	6	U
71-55-6	1 1 1-TRICHLOROETHANE	-1	6	ַ ע
56-23-5	7	-	6	U
75-27-4		-	6	U
78-87-5		-	6	U
79-01-6		-	6	U
124-48-1		-	6	U
79-00-5		-	6	U
71-43-2		-	6	Ū
75-25-2		-	6	U
108-10-1		-	6	Ū
	2-HEXANONE	-	6	Ū
127-18-4		-	6	Ū
		- ·	6	Ŭ
108-88-3			6	Ŭ
79-34-5	- "	_	6	Ŭ
108-90-7			6	Ŭ
	ETHYL BENZENE	_		Ü
100-42-5			6	Ü
156-59-2		_	6	
	trans-1 2-DICHLOROETHENE	_	6	U
13-302-07	m,p-XYLENES	_	6	U
95-47-6		_	6	Ū
106-93-4		_	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE		6	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

10SB115

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22770.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 16 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

75-69-4TRICHLOROFLUOROMETHANE	6	ָ ָ ע
74-95-3DIBROMOMETHANE 96-12-81 2-DIBROMO-3-CHLOROPROPANE_	6	ָ ע
108-86-1BROMOBENZENE 104-51-8n-BUTYLBENZENE	6	Ū
98-06-6tert-BUTYLBENZENE 135-98-8sec-BUTYLBENZENE	6	U U
95-49-82-CHLOROTOLUENE 106-43-44-CHLOROTOLUENE	6	U U
95-50-11 2-DICHLOROBENZENE 541-73-11 3-DICHLOROBENZENE	6	U U
106-46-71 4-DICHLOROBENZENE	6	U U
142-28-91 3-DICHLOROPROPANE 594-20-72 2-DICHLOROPROPANE	6	Ü
563-58-61 1-DICHLOROPROPENE 87-68-3HEXACHLOROBUTADIENE	6	บี
98-82-8ISOPROPYLBENZENE 99-87-6p-ISOPROPYLTOLUENE	6	ט ט
91-20-3NAPHTHALENE 103-65-1n-PROPYLBENZENE	6	U U
87-61-61 2 3-TRICHLOROBENZENE	6 6	U U
120-82-1	6	U
108-67-81 3 5-TRIMETHYLBENZENE	6 6	ָ ט

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB115 Contract: FT. HOOD Tab Name: SWL-TULSA

SDG No.: 28055 SAS No.: Case No.: SAIC _ab Code: SWOK

Lab Sample ID: 28055.12 Matrix: (soil/water) SOIL

Lab File ID: FFK895.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/21/96 (low/med) LOW Level:

Date Extracted: 12/22/96 % Moisture: not dec. 16 dec.

Date Analyzed: 01/09/97 Extraction: (SepF/Cont/Sonc) CONT

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 pH: 8.9 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND

108-95-2Phenol	390	ָּט
111-44-4bis(2-Chloroethyl)ether	390	ןט
95-57-82-Chlorophenol	390	U
541-73-11,3-Dichlorobenzene	390	ן ט
106-46-71,4-Dichlorobenzene	390	ט
100-51-6Benzyl alcohol	390	ט
95-50-11,2-Dichlorobenzene	390	וט
95-48-72-Methylphenol	390	ן ט
108-60-1bis(2-Chloroisopropyl)ether_	390	וט
106-44-54-Methylphenol	390	וט
621-64-7N-Nitroso-di-n-propylamine	390	וט
67-72-1Hexachloroethane	390	ן ט
98-95-3Nitrobenzene	390	U
78-59-1Isophorone	390	U
88-75-52-Nitrophenol	390	U
105-67-92,4-Dimethylphenol	390	U
65-85-0Benzoic Acid	1900	וט
111-91-1bis(2-Chloroethoxy)methane	390	ן ט
120-83-22,4-Dichlorophenol	390	ן ט
120-82-11,2,4-Trichlorobenzene	390	ַ ט
91-20-3Naphthalene	390	וט
106-47-84-Chloroaniline	390	ן ט
87-68-3Hexachlorobutadiene	390	ן ט
59-50-74-Chloro-3-methylphenol	390	ן ט
91-57-62-Methylnaphthalene	390	ן ט
77-47-4Hexachlorocyclopentadiene	390	ן ט
88-06-22,4,6-Trichlorophenol	390	ן ט
95-95-42,4,5-Trichlorophenol	1900	ן ט
91-58-72-Chloronaphthalene	390	ן ט
88-74-42-Nitroaniline	1900	ן ט
131-11-3Dimethylphthalate	390	
208-96-8Acenaphthylene	390	
606-20-22,6-Dinitrotoluene	390	ן ט
270 521120200240110	- [

10SB115

Contract: FT. HOOD Lab Name: SWL-TULSA

SDG No.: 28055 Case No.: SAIC SAS No.: ab Code: SWOK

Lab Sample ID: 28055.12 Matrix: (soil/water) SOIL

Lab File ID: FFK895.D 30.0 (g/mL) GSample wt/vol:

Date Received: 12/21/96 (low/med) LOW Level:

Date Extracted: 12/22/96 dec. % Moisture: not dec. 16

Date Analyzed: 01/09/97 (SepF/Cont/Sonc) CONT Extraction:

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.9 (Y/N) N GPC Cleanup:

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

1900 U 99-09-2----3-Nitroaniline U 390 83-32-9-----Acenaphthene U 390 121-14-2----2,4-Dinitrotoluene_ U 1900 51-28-5-----2,4-Dinitrophenol_ U 1900 100-02-7----4-Nitrophenol U 390 132-64-9-----Dibenzofuran U 390 84-66-2----Diethylphthalate U 390 7005-72-3----4-Chlorophenyl-phenylether_ 390 U 86-73-7-----Fluorene 1900 U 100-01-6-----4-Nitroaniline 1900 U 534-52-1----4,6-Dinitro-2-methylphenol U 390 86-30-6----N-Nitrosodiphenylamine_(1)_ U 390 101-55-3----4-Bromophenylphenylether_ U 390 118-74-1-----Hexachlorobenzene U 1900 87-86-5-----Pentachlorophenol U 390 85-01-8-----Phenanthrene U 390 120-12-7-----Anthracene 390 U 84-74-2-----Di-n-butylphthalate 390 U 206-44-0----Fluoranthene 390 U 129-00-0----Pyrene U 390 85-68-7-----Butylbenzylphthalate U 780 91-94-1-----3,3'-Dichlorobenzidine_ U 390 56-55-3-----Benzo(a)anthracene_ U 390 218-01-9-----Chrysene J 100 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 390 117-84-0-----Di-n-octylphthalate U 390 205-99-2----Benzo(b)fluoranthene U 390 207-08-9----Benzo(k)fluoranthene_ 390 U 50-32-8-----Benzo(a)pyrene U 390 193-39-5-----Indeno(1,2,3-cd)pyrene_ U 390 53-70-3-----Dibenz(a,h)anthracene_ U 390 191-24-2----Benzo(g,h,i)perylene_ U 390 110-86-1-----Pyridine

EPA SAMPLE NO.

10SB115

- b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.12

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: FFK895.D

(low/med)

Date Received: 12/21/96

% Moisture: not dec.

16 dec. Date Extracted: 12/22/96

Level:

Extraction: (SepF/Cont/Sonc)

LOW

CONT

Date Analyzed: 01/09/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.9

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene_

390

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
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05512)

Lab	Name:	SOUTHWEST	LAB OF OK	Contract: SAIC	
	Code:		Case No.:		SDG No

o.: 28055A

Lab Sample ID: 28055.12 Date Received: 12/21/96

Matrix (soil/water): SOIL_ Level (low/med): LOW_

% Solids:

_84.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

		_			
CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	4.9	-	-	P
7440-39-3	Barium	35.9	-		P
7440-43-9	Cadmium	0.12	B		P
7440-43-3	Chromium	7.0	اکا		P-
		6.9	-		$_{\rm P}^{-}$
7439-92-1	Lead		ਰ		ĀV
7439-97-6	Mercury	0.04			P
7782-49-2	Selenium_	0.36			P-
7440-22-4	Silver	0.23	ט		ـــا ا
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Color Before: Color After:	BROWN	Clarity Before: Clarity After:	-	Texture: Artifacts:	MEDIUM
mments: CLIENT_ID_=	_10SB115				
		FORM I - IN			

FHSB202

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22760.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	13	
67-64-1		340	E
75-35-4		- 6	U
75-34-3	1 1-DICHLOROETHANE	- 6	U
	CHLOROFORM	6	U
107-06-2		- 6	U
78-93-3	2-BUTANONE	-	U
71-55-6	**************************************	- 6	U
	CARBON TETRACHLORIDE	- 6	Ū
75-27-4		- 6	Ū
78-87-5		- 6	บ
	TRICHLOROETHENE	- 8	_
	DIBROMOCHLOROMETHANE	- 6	U
	1 1 2-TRICHLOROETHANE	- 6	Ū
71-43-2		- 6	U
	BROMOFORM	- 6	Ū
	4-METHYL-2-PENTANONE	- 6	Ū
	2-HEXANONE	- 6	l ΰ
	TETRACHLOROETHENE	- 6	Ū
108-88-3		- 7	_
79-34-5		- 6	
	CHLOROBENZENE	- 6	Ū
	ETHYL BENZENE	- 6	Ū
100-42-5		- 6	ไ ซื
	cis-1 2-DICHLOROETHENE	- 6	l ü
	trans-1 2-DICHLOROETHENE	- 6	ไ บ็
	m,p-XYLENES	- 6	<u>ע</u>
	·O-XYLENE	- 6	ט ו
	1 2-DIBROMOETHANE	- 6	ט
630-20-6		- 6	l ti
630-20-6	I I I Z-IEIRACHLOROEIHANE	- 6	"
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FHSB202
Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I22760.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-4	1 2 3-TRICHLOROPROPANE	6	U
75-71-8	DICHLORODIFLUOROMETHANE	6	U
75-69-4	TRICHLOROFLUOROMETHANE	6	U
74-95-3	DIBROMOMETHANE	6	U
96-12-8	1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1	BROMOBENZENE -	6	U
104-51-8	n-BUTYLBENZENE	6	U
98-06-6	tert-BUTYLBENZENE	6	U
135-98-8	sec-BUTYLBENZENE	6	U
95-49-8	2-CHLOROTOLUENE	6	U
106-43-4	4-CHLOROTOLUENE	6	U
95-50-1		6	U
541-73-1	1 3-DICHLOROBENZENE	6	Ū
106-46-7	1 4-DICHLOROBENZENE	6	Ū
	1 3-DICHLOROPROPANE	6	U
594-20-7	2 2-DICHLOROPROPANE	6	U
563-58-6	1 1-DICHLOROPROPENE	6	U
	HEXACHLOROBUTADIENE	6	U
98-82-8	ISOPROPYLBENZENE	6	U
99-87-6	p-ISOPROPYLTOLUENE	6	U
91-20-3		6	U
103-65-1	n-PROPYLBENZENE	6	U
87-61-6		6	Ū
120-82-1	1 2 4-TRICHLOROBENZENE	6	U
95-63-6	1 2 4-TRIMETHYLBENZENE	6	Ü
108-67-8	1 3 5-TRIMETHYLBENZENE	6	Ü
	BROMOCHLOROMETHANE	6	τ

Lab Name: SWL-TULSA Contract: FT HOOD FHSB202DL

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.14DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: I22771.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG Q

32 U 74-83-9-----BROMOMETHANE 32 U 32 75-01-4-----VINYL CHLORIDE U U 32 75-00-3-----CHLOROETHANE 54 D 75-09-2-----METHYLENE CHLORIDE 150 D 67-64-1------ACETONE 32 U 75-35-4----1 1-DICHLOROETHENE 32 U 75-34-3----- 1 1-DICHLOROETHANE 67-66-3-----CHLOROFORM 32 U U 107-06-2----1 2-DICHLOROETHANE 32 32 U 78-93-3----2-BUTANONE 32 U 71-55-6-----1 1 1-TRICHLOROETHANE U 32 56-23-5-----CARBON TETRACHLORIDE 32 U 75-27-4-----BROMODICHLOROMETHANE 32 U 78-87-5-----1 2-DICHLOROPROPANE 79-01-6-----TRICHLOROETHENE 16 JD 32 U 124-48-1-----DIBROMOCHLOROMETHANE 79-00-5-----1 1 2-TRICHLOROETHANE 32 U 32 U 71-43-2-----BENZENE 32 Ũ 75-25-2-----BROMOFORM 108-10-1-----4-METHYL-2-PENTANONE 32 U 32 U 591-78-6----2-HEXANONE 32 U 127-18-4----TETRACHLOROETHENE 108-88-3-----TOLUENE 15 JD 79-34-5-----1 1 2 2-TETRACHLOROETHANE 32 U 108-90-7------CHLOROBENZENE 32 U 100-41-4----ETHYL BENZENE 32 U 100-42-5----STYRENE 32 IJ 156-59-2----cis-1 2-DICHLOROETHENE 32 U 156-60-5-----trans-1 2-DICHLOROETHENE 32 U 13-302-07----m,p-XYLENES U 32 U 95-47-6-----XYLENE 32 U 106-93-4----- 2-DIBROMOETHANE 32 630-20-6-----1 1 1 2-TETRACHLOROETHANE 32 U

FHSB202DL

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.14DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: I22771.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 Date Analyzed: 12/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: cas no. compound (ug/L or ug/Kg) UG/KG Q

FHSB202

Contract: FT. HOOD - ab Name: SWL-TULSA

SDG No.: 28055 SAS No.: цаb Code: SWOK Case No.: SAIC

Lab Sample ID: 28055.14 Matrix: (soil/water) SOIL

Lab File ID: FFK896.D 30.0 (g/mL) G Sample wt/vol:

Date Received: 12/21/96 LOW (low/med) Level:

Date Extracted: 12/22/96 21 dec. % Moisture: not dec.

Date Analyzed: 01/09/97 CONT Extraction: (SepF/Cont/Sonc)

1000(uL) Concentrated Extract Volume:

Dilution Factor: 1.0 pH: 8.2 GPC Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q COMPOUND CAS NO.

420 U 108-95-2----Phenol 111-44-4----bis(2-Chloroethyl)ether 420 U U 420 95-57-8----2-Chlorophenol U 420 541-73-1----1,3-Dichlorobenzene U 420 106-46-7----1,4-Dichlorobenzene_ U 420 100-51-6-----Benzyl alcohol U 420 95-50-1----1,2-Dichlorobenzene 420 U 95-48-7----2-Methylphenol 420 U 108-60-1-----bis(2-Chloroisopropyl)ether 420 U 106-44-5----4-Methylphenol U 420 621-64-7----N-Nitroso-di-n-propylamine_ U 420 67-72-1-----Hexachloroethane U 420 98-95-3-----Nitrobenzene U 420 78-59-1-----Isophorone U 420 88-75-5----2-Nitrophenol U 420 105-67-9----2,4-Dimethylphenol 2000 U 65-85-0-----Benzoic Acid 420 U 111-91-1-----bis(2-Chloroethoxy)methane_ U 420 120-83-2----2,4-Dichlorophenol U 420 120-82-1----1,2,4-Trichlorobenzene_ U 420 91-20-3----Naphthalene U 420 106-47-8-----4-Chloroaniline U 420 87-68-3-----Hexachlorobutadiene U 420 59-50-7----4-Chloro-3-methylphenol_ U 420 91-57-6----2-Methylnaphthalene U 420 77-47-4-----Hexachlorocyclopentadiene U 420 88-06-2----2,4,6-Trichlorophenol_ U 2000 95-95-4----2,4,5-Trichlorophenol_ U 420 91-58-7----2-Chloronaphthalene_ U 2000 88-74-4----2-Nitroaniline U 420 131-11-3-----Dimethylphthalate_ U 420 208-96-8-----Acenaphthylene U 420 606-20-2----2,6-Dinitrotoluene

FHSB202
SWI,-TULSA Contract: FT. HOOD

Tab Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) SOIL Lab Sample ID: 28055.14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFK896.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 21 dec. Date Extracted:12/22/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

2000 U 99-09-2----3-Nitroaniline U 420 83-32-9----Acenaphthene U 420 121-14-2----2,4-Dinitrotoluene_ U 2000 51-28-5----2,4-Dinitrophenol_ U 2000 100-02-7----4-Nitrophenol 420 U 132-64-9-----Dibenzofuran 420 U 84-66-2-----Diethylphthalate U 420 7005-72-3----4-Chlorophenyl-phenylether_ 420 U 86-73-7----Fluorene 2000 U 100-01-6----4-Nitroaniline 2000 U 534-52-1----4,6-Dinitro-2-methylphenol U 420 86-30-6----N-Nitrosodiphenylamine_(1)_ 420 U 101-55-3----4-Bromophenylphenylether_ U 420 118-74-1-----Hexachlorobenzene_ U 2000 87-86-5----Pentachlorophenol U 420 85-01-8----Phenanthrene U 420 120-12-7-----Anthracene 420 U 84-74-2-----Di-n-butylphthalate_ U 420 206-44-0----Fluoranthene U 420 129-00-0----Pyrene U 420 85-68-7----Butylbenzylphthalate_ U 840 91-94-1----3,3'-Dichlorobenzidine_ U 420 56-55-3-----Benzo(a)anthracene_ U 420 218-01-9-----Chrysene U 420 117-81-7-----bis(2-Ethylhexyl)phthalate__ U 420 117-84-0-----Di-n-octylphthalate 420 U 205-99-2----Benzo(b)fluoranthene 420 U 207-08-9----Benzo(k)fluoranthene U 420 50-32-8-----Benzo(a)pyrene U 420 193-39-5----Indeno(1,2,3-cd)pyrene_ U 420 53-70-3-----Dibenz(a,h)anthracene_ U 420 191-24-2----Benzo(g,h,i)perylene_ U 420 110-86-1-----Pyridine

EPA SAMPLE NO.

FHSB202

Tab Name: SWL-TULSA

Contract: FT. HOOD

...ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) SOIL

Lab Sample ID: 28055.14

Sample wt/vol:

30.0 (g/mL) G

Lab File ID: FFK896.D

Level: (low/med)

LOW

Date Received: 12/21/96

% Moisture: not dec.

21 dec. Date Extracted: 12/22/96

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.2

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

420

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

עסים	SAMPLE	NO
LIE E		710

	T1101101T1	C 111111111111111111111111111111111111	,	
				05514
ab Name: SOUTHWEST_ ab Code: SWOK_ Matrix (soil/water):	Case No.:		: Lab Sample	SDG No.: 28055A E ID: 28055.14
Level (low/med):	LOW		Date Recei	lved: 12/21/96

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	5.2	-		P
7440-38-2	Barium	47.3	-		P-
			B		P-
7440-43-9	Cadmium_	0.29			
7440-47-3	Chromium_	8.0	_		P_
7439-92-1	Lead	9.8	_		P_
7439-97-6	Mercury	0.04			ΑV
7782-49-2	Selenium	0.38	U		P
7440-22-4	Silver	0.24	ט		P
7440 22 1					
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Color Before: Color After:	BROWN	Clarity Before:	Texture: Artifacts:	MEDIUM
nments: CLIENT_ID_=	_FHSB202			
		FORM I - IN	TT	MO2 1

EPA SAMPLE NO.

FHGW101

Lab Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.03

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL732.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L (

0	00.11 001.2		J, J.		
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 71-55-6 75-27-4 78-87-5 79-01-6 79-01-6 71-43-2 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	1 1-DICHLOROETHENE1 1-DICHLOROETHANECHLOROFORM1 2-DICHLOROETHANE2-BUTANONE1 1 1-TRICHLOROETHANECARBON TETRACHLORIDEBROMODICHLOROMETHANE1 2-DICHLOROPROPANETRICHLOROETHENEDIBROMOCHLOROMETHANE1 1 2-TRICHLOROETHANEBENZENEBROMOFORM4-METHYL-2-PENTANONE2-HEXANONETTETRACHLOROETHENETOLUENETOLUENETOLUENECHLOROBENZENECHLOROBENZENE	ETHANE		55055555555555555555555555555555555555	מם מנטטטט טטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
79-34-5 108-90-7 100-41-4 100-42-5 156-59-2 156-60-5 13-302-07 95-47-6 106-93-4	1 1 2 2-TETRACHLOROETCHLOROBENZENEETHYL BENZENESTYRENEcis-1 2-DICHLOROETHETtrans-1 2-DICHLOROETTET	NE HENE		79 32 5	

FHGW101

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 28055

Matrix: (soil/water) WATER

Lab Sample ID: 28055.03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: UL732.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec.

Date Analyzed: 12/27/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/L Q

		I
96-18-41 2 3-TRICHLOROPROPANE	5	ָּט
75-71-8DICHLORODIFLUOROMETHANE	5	Ū
75-69-4TRICHLOROFLUOROMETHANE	5	Ū
74-95-3DIBROMOMETHANE	5	U
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1BROMOBENZENE	5	ָּע
104-51-8n-BUTYLBENZENE	5	U
98-06-6tert-BUTYLBENZENE	5	ן ט
135-98-8sec-BUTYLBENZENE	5	U
95-49-82-CHLOROTOLUENE	5	Ū
106-43-44-CHLOROTOLUENE	5	ַ ד
95-50-11 2-DICHLOROBENZENE	5	U
541-73-11 3-DICHLOROBENZENE	5	ן ט
106-46-71 4-DICHLOROBENZENE	39	
142-28-91 3-DICHLOROPROPANE	5	Ū
594-20-72 2-DICHLOROPROPANE	5	U
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	6	
99-87-6p-ISOPROPYLTOLUENE	5	U
91-20-3NAPHTHALENE	78	ļ
103-65-1n-PROPYLBENZENE	9	
87-61-61 2 3-TRICHLOROBENZENE	5	Ū
120-82-11 2 4-TRICHLOROBENZENE	5	U
95-63-61 2 4-TRIMETHYLBENZENE	49	
108-67-81 3 5-TRIMETHYLBENZENE	7	
74-97-5BROMOCHLOROMETHANE	5	Ū
1	1	

Tab Name: SWL-TULSA Contract: FT. HOOD FHGW101

шаb Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK878.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 0 dec. Date Extracted:12/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

		
108-95-2Phenol	10	บ
111-44-4bis(2-Chloroethyl)ether	10	Ū
95-57-82-Chlorophenol	10	Ū
541 73 1 2 Dighteron	10	τī
541-73-11,3-Dichlorobenzene	27	•
106-46-71,4-Dichlorobenzene	10	Ū
100-51-6Benzyl alcohol	10	บ
95-50-11,2-Dichlorobenzene		
95-48-72-Methylphenol	10	Ŭ
108-60-1bis(2-Chloroisopropyl)ether_	10	ជ
106-44-54-Methylphenol	5	J
621-64-7N-Nitroso-di-n-propylamine	10	Ŭ
67-72-1Hexachloroethane	10	U
98-95-3Nitrobenzene	10	U
78-59-1Isophorone	10	Ū
88-75-52-Nitrophenol	10	U
105-67-92,4-Dimethylphenol	10	U
65-85-0Benzoic Acid	50	U
111-91-1bis(2-Chloroethoxy)methane	10	U
120-83-22,4-Dichlorophenol	10	Ü
120-82-11,2,4-Trichlorobenzene	10	U
91-20-3Naphthalene	50	
106-47-84-Chloroaniline	10	Ū
87-68-3Hexachlorobutadiene	10	U
59-50-74-Chloro-3-methylphenol	10	ប
91-57-62-Methylnaphthalene	7	J
77-47-4Hexachlorocyclopentadiene	10	บ
	10	Ŭ
88-06-22,4,6-Trichlorophenol	50	l ŭ
95-95-42,4,5-Trichlorophenol	10	บี
91-58-72-Chloronaphthalene	50	l ŭ
88-74-42-Nitroaniline	.1	ט ט
131-11-3Dimethylphthalate	10] ប
208-96-8Acenaphthylene	10	
606-20-22,6-Dinitrotoluene	10	ט
	1	

EPA SAMPLE NO.

FHGW101

b Name: SWL-TULSA

Case No.: SAIC

SAS No.:

Contract: FT. HOOD

SDG No.: 28055

Matrix: (soil/water) WATER

Lab Sample ID: 28055.03

Sample wt/vol:

1000 (g/mL) ML

FFK878.D Lab File ID:

(low/med)

цав Code: SWOK

LOW

Date Received: 12/21/96

% Moisture: not dec.

dec. 0

Date Extracted: 12/23/96

Extraction:

Level:

(SepF/Cont/Sonc)

CONT

Date Analyzed: 01/08/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 6.7

Dilution Factor: 1.0

CONCENTRATION UNITS:

Q

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

50 99-09-2----3-Nitroaniline U 10 83-32-9-----Acenaphthene U 10 121-14-2----2,4-Dinitrotoluene_ U 50 51-28-5----2,4-Dinitrophenol_ U 50 100-02-7----4-Nitrophenol 10 U 132-64-9-----Dibenzofuran U 10 84-66-2----Diethylphthalate U 10 7005-72-3----4-Chlorophenyl-phenylether_ U 10 86-73-7----Fluorene U 50 100-01-6----4-Nitroaniline U 50 534-52-1----4,6-Dinitro-2-methylphenol 15 86-30-6----N-Nitrosodiphenylamine_(1)_ Ū 10 101-55-3-----4-Bromophenylphenylether_ U 10 118-74-1-----Hexachlorobenzene_ U 50 87-86-5----Pentachlorophenol U 10 85-01-8-----Phenanthrene U 10 120-12-7-----Anthracene U 10 84-74-2-----Di-n-butylphthalate_ U 10 206-44-0----Fluoranthene U 10 129-00-0-----Pyrene U 10 85-68-7-----Butylbenzylphthalate_ U 20 91-94-1----3,3'-Dichlorobenzidine U 10 56-55-3----Benzo(a)anthracene U 10 218-01-9-----Chrysene J 117-81-7-----bis(2-Ethylhexyl)phthalate_ U 10 117-84-0-----Di-n-octylphthalate U 10 205-99-2----Benzo(b)fluoranthene U 10 207-08-9-----Benzo(k)fluoranthene_ U 10 50-32-8-----Benzo(a)pyrene U 10 193-39-5----Indeno(1,2,3-cd)pyrene_ U 10 53-70-3-----Dibenz(a,h)anthracene_ U 10 191-24-2----Benzo(g,h,i)perylene_ U 50 110-86-1-----Pyridine

EPA SAMPLE NO.

FHGW101

Lab Name: SWL-TULSA

Contract: FT. HOOD

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) WATER

Lab Sample ID: 28055.03

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: FFK878.D

(low/med) Level:

LOW

Date Received: 12/21/96

% Moisture: not dec.

dec. 0

Date Extracted: 12/23/96

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/08/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup:

(Y/N) N

pH: 6.7

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene_

10

U

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO

			05503
ab Name: SOUTHWEST	LAB OF OK	Contract: SAIC	
ab Code: SWOK	Case No.: 280!	SAS No.:	SDG No.: 28055B
atrix (soil/water):	WATER	Lab	Sample ID: 28055.03
evel (low/med):	LOW	Date	Received: 12/21/96
Solids:	0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	С	Q	М
7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	Arsenic	21.5 254 0.50 0.80 1.7 0.10 2.8 1.2	ם ממם	*	P P P AV P P

		COLORLESS COLORLESS	Clarity Clarity	Before: After:	CLEAR_ CLEAR_	Texture: Artifacts:	
.men CLI	ts: ENT_ID=_F	FHGW101					
			FORI	MI - IN		ILI	M02.1

VOLATILE ORGANICS ANALYSIS DATA SHEET

FHGW201
Lab Name: SWL-TULSA Contract: FT HOOD

dab Name. BWI 101611

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL737.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (uq/L or uq/Kq) UG/L Q

			3, 3,		
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-35-4	1 1-DICHLOROETHENE 1 1-DICHLOROETHANE			5 16 5 13 5 5 5	
107-06-2 78-93-3 71-55-6 56-23-5 75-27-4 78-87-5 79-01-6	1 2-DICHLOROETHANE2-BUTANONE1 1 1-TRICHLOROETHANCARBON TETRACHLORIDEBROMODICHLOROMETHANE1 2-DICHLOROPROPANETRICHLOROETHENEDIBROMOCHLOROMETHANE1 1 2-TRICHLOROETHAN			5555555554	ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 79-34-5 108-90-7	BROMOFORM4-METHYL-2-PENTANONE2-HEXANONETETRACHLOROETHENETOLUENE1 1 2 2-TETRACHLOROECHLOROBENZENEETHYL BENZENE			555525305 735	υ υ υ υ
156-59-2 156-60-5 13-302-07	cis-1 2-DICHLOROETHEtrans-1 2-DICHLOROETm,p-XYLENES	NE 'HENE		5 5 69	U U
	0-XYLENE 1 2-DIBROMOETHANE 1 1 1 2-TETRACHLOROE	THANE	· · · · · · · · · · · · · · · · · · ·	13 5 5	ָּ ט

Lab Name: SWL-TULSA

EPA SAMPLE NO.

FHGW201
Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.16

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL737.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. _____ Date Analyzed: 12/27/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-95-3DIBROMOM	ROMO – 3 – CHLOROPROP. IZENE BENZENE TYLBENZENE TLBENZENE DTOLUENE	ANE		555555555	ם ט ט ט ט ט ט ט ט
96-12-8	ROMO - 3 - CHLOROPROP. IZENE BENZENE TYLBENZENE TLBENZENE DTOLUENE DTOLUENE	ANE_ 		5 5 5 5 5 5 5	ט ט ט
108-86-1BROMOBEN 104-51-8n-BUTYLE 98-06-6tert-BUT 135-98-8sec-BUTY 95-49-82-CHLORO	IZENE BENZENE TYLBENZENE TOLUENE OTOLUENE			555555	ם מממ מ
104-51-8n-BUTYLE 98-06-6tert-BUT 135-98-8sec-BUTY 95-49-82-CHLORC	BENZENE TYLBENZENE TOLUENE OTOLUENE			5 5 5 5 5	ם ט ט
98-06-6tert-BUT 135-98-8sec-BUTY 95-49-82-CHLORC	YLBENZENE YLBENZENE OTOLUENE OTOLUENE			5 5 5 5	U U U
135-98-8sec-BUTY 95-49-82-CHLORC	TLBENZENE			5 5 5	Ū
95-49-82-CHLORC	OTOLUENE OTOLUENE			5	
106 43 4 A CUTODO				5	U
1 TOO-43-4	ILOROBENZENE				
95-50-11 2-DICH				5	U
541-73-11 3-DICH	HLOROBENZENE			5	U
106-46-71 4-DICH	HLOROBENZENE			39	
142-28-91 3-DICH	ILOROPROPANE			5	Ū
594-20-72 2-DICH	HLOROPROPANE			5	U
	HLOROPROPENE			5	U
87-68-3HEXACHLC				5	U
98-82-8ISOPROPY				5	
99-87-6p-ISOPRO				5	Ū
91-20-3NAPHTHAI	LENE			78	
103-65-1n-PROPYI				9	
	RICHLOROBENZENE			5	Ū
	RICHLOROBENZENE			5	Ū
	RIMETHYLBENZENE		*	48	
108-67-81 3 5-TF				6	
74-97-5BROMOCHI	COROMETHANE			5	Ū

FHGW201
Tab Name: SWL-TULSA Contract: FT. HOOD

цар Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.16

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK897.D

Level: (low/med) LOW Date Received: 12/21/96

% Moisture: not dec. 0 dec. Date Extracted:12/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/09/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

10 U 108-95-2----Phenol 111-44-4-----bis(2-Chloroethyl)ether U 10 U 10 95-57-8----2-Chlorophenol U 10 541-73-1----1,3-Dichlorobenzene 30 106-46-7----1,4-Dichlorobenzene 10 ับ 100-51-6-----Benzyl alcohol 95-50-1-----1,2-Dichlorobenzene 10 U U 10 95-48-7----2-Methylphenol 10 U 108-60-1-----bis(2-Chloroisopropyl)ether_ J 6 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine U 10 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene U 10 78-59-1----Isophorone U 10 88-75-5-----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol U 50 65-85-0-----Benzoic Acid U 111-91-1-----bis(2-Chloroethoxy)methane_ 10 U 120-83-2----2,4-Dichlorophenol 10 U 10 120-82-1----1,2,4-Trichlorobenzene 54 91-20-3----Naphthalene Ū 10 106-47-8-----4-Chloroaniline U 10 87-68-3-----Hexachlorobutadiene U 10 59-50-7----4-Chloro-3-methylphenol J 6 91-57-6----2-Methylnaphthalene 10 U 77-47-4-----Hexachlorocyclopentadiene_ U 10 88-06-2----2,4,6-Trichlorophenol 50 U 95-95-4----2,4,5-Trichlorophenol_ U 10 91-58-7----2-Chloronaphthalene_ U 50 88-74-4----2-Nitroaniline U 10 131-11-3-----Dimethylphthalate U 208-96-8-----Acenaphthylene 10 U 10 606-20-2----2,6-Dinitrotoluene

FHGW201

Contract: FT. HOOD ab Name: SWL-TULSA

SDG No.: 28055 Lab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 28055.16

Matrix: (soil/water) WATER

Lab File ID: FFK897.D 1000 (g/mL) ML Sample wt/vol:

Date Received: 12/21/96 (low/med) LOW Level:

Date Extracted: 12/23/96 dec. % Moisture: not dec. 0

Date Analyzed: 01/09/97 Extraction: (SepF/Cont/Sonc) CONT

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 6.7

CONCENTRATION UNITS: Q COMPOUND (ug/L or ug/Kg) UG/L CAS NO.

EPA SAMPLE NO.

FHGW201

Tab Name: SWL-TULSA

Contract: FT. HOOD

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) WATER

Lab Sample ID: 28055.16

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: FFK897.D

Level: (low/med) LOW

Date Received: 12/21/96

% Moisture: not dec. 0

dec.

Date Extracted: 12/23/96

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 01/09/97

Concentrated Extract Volume:

1000(uL)

GPC Cleanup:

(Y/N) N

pH: 6.7

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene_

10

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Tab Name: SWL-TULSA Contract: FT. HOOD FHGW201RE

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28055

Matrix: (soil/water) WATER Lab Sample ID: 28055.16RA

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK936.D

Level: (low/med) LOW Date Received: 12/21/97

% Moisture: not dec. 0 dec. Date Extracted:12/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/10/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q CAS NO. COMPOUND U 10 108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether U 10 95-57-8-----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene 30 106-46-7----1,4-Dichlorobenzene U 10 100-51-6----Benzyl alcohol U 95-50-1----1,2-Dichlorobenzene_ 10 10 U 95-48-7----2-Methylphenol U 108-60-1-----bis(2-Chloroisopropyl)ether 10 6 J 106-44-5----4-Methylphenol U 10 621-64-7----N-Nitroso-di-n-propylamine U 10 67-72-1-----Hexachloroethane U 98-95-3----Nitrobenzene 10 U 10 78-59-1-----Isophorone U 10 88-75-5----2-Nitrophenol Ū 105-67-9----2,4-Dimethylphenol_ 10 U 50 65-85-0----Benzoic Acid U 111-91-1----bis(2-Chloroethoxy)methane_ 10 U 120-83-2----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ 10 U 10 56 91-20-3----Naphthalene Ū 10 106-47-8-----4-Chloroaniline U 10 87-68-3-----Hexachlorobutadiene U 10 59-50-7----4-Chloro-3-methylphenol J 91-57-6----2-Methylnaphthalene U 10 77-47-4-----Hexachlorocyclopentadiene U 10 88-06-2----2,4,6-Trichlorophenol_ U 50 95-95-4----2,4,5-Trichlorophenol U 10 91-58-7----2-Chloronaphthalene U 50 88-74-4----2-Nitroaniline U 10 131-11-3-----Dimethylphthalate_ U 10 208-96-8-----Acenaphthylene U 10 606-20-2----2,6-Dinitrotoluene

Tab Name: SWL-TULSA Contract: FT. HOOD FHGW201RE

Matrix: (soil/water) WATER Lab Sample ID: 28055.16RA

Sample wt/vol: 1000 (g/mL) ML Lab File ID: FFK936.D

Level: (low/med) LOW Date Received: 12/21/97

% Moisture: not dec. 0 dec. Date Extracted:12/23/96

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/10/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

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99-09-2			50 10 10 50 50 10 10 10 10 10 10 10 10 10 10 10 10 10	ם טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
129-00-0Pyrene 85-68-7Butylbenzylphthalate 91-94-13,3'-Dichlorobenzidine 56-55-3Benzo(a)anthracene			10 10 20 10	บ บ บ
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EPA SAMPLE NO.

FHGW201RE

Tab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28055

Matrix: (soil/water) WATER

Lab Sample ID: 28055.16RA

Sample wt/vol:

% Moisture: not dec.

1000 (g/mL) ML

Lab File ID:

FFK936.D

LOW

Date Received: 12/21/97

Level:

(low/med)

0 dec. Date Extracted: 12/23/96

Extraction: (SepF/Cont/Sonc)

CONT

Date Analyzed: 01/10/97

Concentrated Extract Volume: 1000(uL)

pH: 6.7

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

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U.S. EPA - CLP

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INORGANIC	ANALYSES	DATA	SHEET

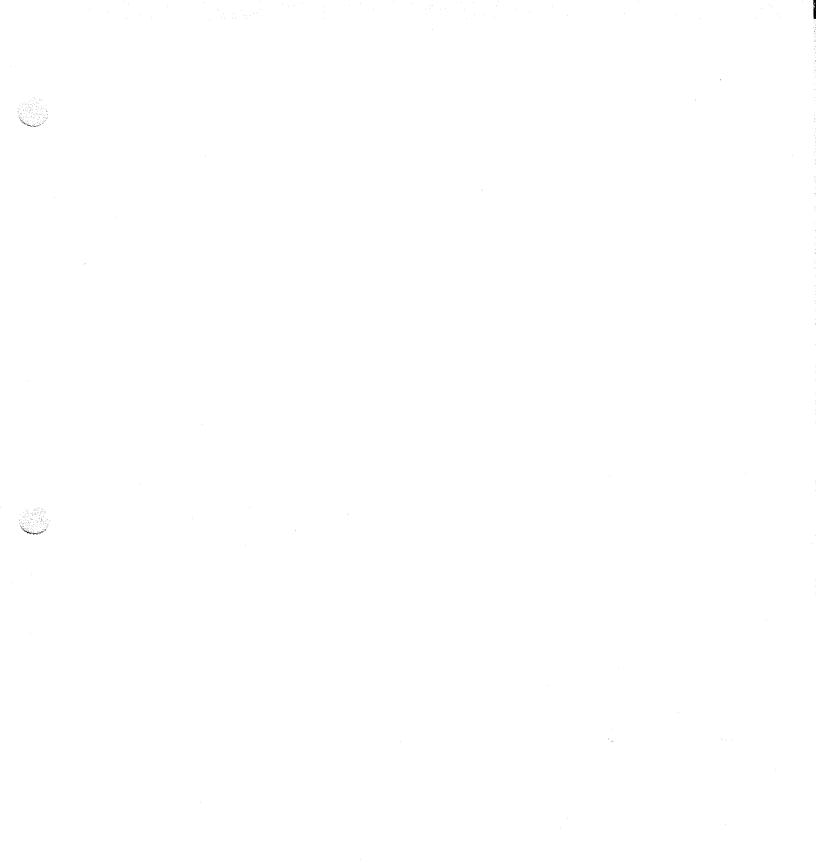
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Lab Name: SOUTHWEST	LAB OF OK	Contract: SAI	c	05516
Lab Code: SWOK	Case No.: 2			SDG No.: 28055B
Matrix (soil/water):		L	ab Sample	ID: 28055.16
Level (low/med):	LOW	D	ate Recei	ved: 12/21/96
% Solids:	0.0			

Concentration Units (ug/L or mg/kg dry weight): $UG/L_{_}$

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CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	18.9	-		P
7440-39-3	Barium	260	-		P P
7440-43-9	Cadmium	0.50	ਹ		$_{\rm P}^{-}$
7440-47-3	Chromium	0.80	שו		P ⁻
7439-92-1	Lead	1.9	В	*	P_
7439-97-6	Mercury_	0.10	U		$A\overline{V}$
7782-49-2	Selenium	2.8	υ		P
7440-22-4	Silver	1.2	ש		P_
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EPA SAMPLE NO.

10SB117

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

atrix: (soil/water) SOIL Lab Sample ID: 33998.01

ample wt/vol: 5.0 (g/mL) G Lab File ID: I27130.D

evel: (low/med) LOW Date Received: 05/16/98

Moisture: not dec. 6 Date Analyzed: 05/20/98

olumn: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

U U 74-83-9-----BROMOMETHANE 5 U 75-01-4-----VINYL CHLORIDE 5 U 75-00-3-----CHLOROETHANE 18 В 75-09-2-----METHYLENE CHLORIDE 6 67-64-1------ACETONE 5 Ū 75-35-4----- 1 1-DICHLOROETHENE 5 U 75-34-3-----1 1-DICHLOROETHANE 2 J 67-66-3------CHLOROFORM 5 U 107-06-2----1 2-DICHLOROETHANE 5 5 5 U 78-93-3----2-BUTANONE U 71-55-6----- 1 1 1-TRICHLOROETHANE U 56-23-5-----CARBON TETRACHLORIDE 5 U 75-27-4-----BROMODICHLOROMETHANE 5 U 78-87-5----1 2-DICHLOROPROPANE 5 U 79-01-6-----TRICHLOROETHENE 5 U 124-48-1-----DIBROMOCHLOROMETHANE 5 U 79-00-5-----1 1 2-TRICHLOROETHANE 5 U 71-43-2----BENZENE 3 J 75-25-2----BROMOFORM 5 U 108-10-1---4-METHYL-2-PENTANONE 5 U 591-78-6----2-HEXANONE 5 U 127-18-4----TETRACHLOROETHENE 5 U 108-88-3-----TOLUENE 3 J 79-34-5-----1 1 2 2-TETRACHLOROETHANE 5 U 5 U 100-41-4----ETHYL BENZENE 5 U 100-42-5----STYRENE 5 U 156-59-2----cis-1 2-DICHLOROETHENE 5 U 156-60-5----trans-1 2-DICHLOROETHENE 5 U 13-302-07----m,p-XYLENES 5 U 95-47-6----O-XYLENE 5 U 106-93-4-----1 2-DIBROMOETHANE 630-20-6-----1 1 1 2-TETRACHLOROETHANE U

EPA SAMPLE NO.

10SB117

ab Name: SWL-TULSA

Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

latrix: (soil/water) SOIL

Lab Sample ID: 33998.01

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I27130.D

Low/med) LOW

Date Received: 05/16/98

Moisture: not dec. 6

Date Analyzed: 05/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND

CONCENTRATION UNITS:

(uq/L or ug/Kg) UG/KG Q

96-18-4	מממממממממממ
75-69-4TRICHLOROFLUOROMETHANE 74-95-3DIBROMOMETHANE 96-12-81 2-DIBROMO-3-CHLOROPROPANE 108-86-1BROMOBENZENE 104-51-8BUTYLBENZENE 98-06-6tert-BUTYLBENZENE 135-98-8sec-BUTYLBENZENE 595-49-82-CHLOROTOLUENE 106-43-41 2-DICHLOROBENZENE 595-50-11 2-DICHLOROBENZENE	ם ט ט ט ט ט ט ט ט ט
74-95-3	ם ם ם ם ם ם ם
96-12-8	ע ע ע ע
108-86-1BROMOBENZENE 5 104-51-8n-BUTYLBENZENE 5 98-06-6tert-BUTYLBENZENE 5 135-98-8sec-BUTYLBENZENE 5 95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 5	U U U U
104-51-8n-BUTYLBENZENE 5 98-06-6tert-BUTYLBENZENE 5 135-98-8sec-BUTYLBENZENE 5 95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 5	บ บ บ
98-06-6tert-BUTYLBENZENE 5 135-98-8sec-BUTYLBENZENE 5 95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 5	บ บ บ
135-98-8sec-BUTYLBENZENE 5 95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 5	U U
95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 5	U U
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106-46-71 4-DICHLOROBENZENE 5	U
142-28-91 3-DICHLOROPROPANE5	ַ ע
594-20-72 2-DICHLOROPROPANE5	U
563-58-61 1-DICHLOROPROPENE 5	U
87-68-3HEXACHLOROBUTADIENE 5	U
98-82-8ISOPROPYLBENZENE 5	U
99-87-6p-ISOPROPYLTOLUENE 5	ַּע
91-20-3NAPHTHALENE 5	U
103-65-1n-PROPYLBENZENE 5	ָּט
87-61-61 2 3-TRICHLOROBENZENE5	U
120-82-1	ָּט
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108-67-81 3 5-TRIMETHYLBENZENE 5	ט
74-97-5BROMOCHLOROMETHANE 5	Ū

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: FORT HOOD O Lab Name: SWL-TULSA

10SB117

Case No.: SAIC Lab Code: SWOK

SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.01

Lab File ID:

CONCENTRATION UNITS:

M10326.D

Sample wt/vol:

31.7 (g/mL) G

Level:

(low/med) LOW Date Received: 05/16/98

% Moisture: not dec.

dec. 6

Date Extracted: 05/18/98

SONC Extraction: (SepF/Cont/Sonc)

Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

78-59-1------Isophorone

88-75-5-----2-Nitrophenol

65-85-0-----Benzoic Acid

91-20-3-----Naphthalene

105-67-9-----2,4-Dimethylphenol_

120-83-2----2,4-Dichlorophenol

87-68-3-----Hexachlorobutadiene

91-57-6----2-Methylnaphthalene

88-06-2----2,4,6-Trichlorophenol

95-95-4-----2,4,5-Trichlorophenol

91-58-7----2-Chloronaphthalene

131-11-3-----Dimethylphthalate

606-20-2-----2,6-Dinitrotoluene

106-47-8------4-Chloroaniline

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

120-82-1-----1,2,4-Trichlorobenzene_

59-50-7----4-Chloro-3-methylphenol_

77-47-4-----Hexachlorocyclopentadiene_

111-91-1-----bis(2-Chloroethoxy)methane_

8.8 Hg

Dilution Factor: 1.0

0 (uq/L or ug/Kg) UG/KG COMPOUND CAS NO. 330 108-95-2-----Phenol 111-44-4-----bis(2-Chloroethyl)ether 330 U 330 U 95-57-8-----2-Chlorophenol U 330 541-73-1-----1,3-Dichlorobenzene U 330 106-46-7----1,4-Dichlorobenzene U 330 100-51-6-----Benzyl alcohol U 330 95-50-1-----1,2-Dichlorobenzene U 330 95-48-7----2-Methylphenol U 330 108-60-1-----bis(2-Chloroisopropyl)ether_ U 330 106-44-5-----4-Methylphenol U 330 621-64-7----N-Nitroso-di-n-propylamine U 330 67-72-1-----Hexachloroethane_ 330 U 98-95-3-----Nitrobenzene

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EPA SAMPLE NO.

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FORT HOOD 0

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

Matrix: (soil/water) SOIL Lab Sample ID: 33998.01

Sample wt/vol: 31.7 (g/mL) G Lab File ID: M10326.D

Level: (low/med) LOW Date Received: 05/16/98

% Moisture: not dec. 6 dec. Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAB NO. COMPOUND (ag/ ii or ag/		<u> </u>
99-09-23-Nitroaniline	1600	ט
83-32-9Acenaphthene	330	ן ט
121-14-22,4-Dinitrotoluene	330	ן ט
51-28-52,4-Dinitrophenol	1600	ע
100-02-74-Nitrophenol	1600	U
132-64-9Dibenzofuran	330	U
84-66-2Diethylphthalate	330	וט
7005-72-34-Chlorophenyl-phenylether_	330	וט
86-73-7Fluorene	330	ַ ט
100-01-64-Nitroaniline	1600	U
534-52-14.6-Dinitro-2-methylphenol	1600	ַ
86-30-6N-Nitrosodiphenylamine (1)	330	U
101-55-34-Bromophenylphenylether	330	U
118-74-1Hexachlorobenzene	330	υļ
87-86-5Pentachlorophenol	1600	ע
85-01-8Phenanthrene	330	ַ ע
120-12-7Anthracene	330	U
84-74-2Di-n-butylphthalate	330	U
206-44-0Fluoranthene	330	U
129-00-0Pyrene	330	U
85-68-7Butylbenzylphthalate	330	U
91-94-13,3'-Dichlorobenzidine	660	U
56-55-3Benzo(a)anthracene	330	U
218-01-9Chrysene	330	ש
117-81-7bis(2-Ethylhexyl)phthalate	330	ן ט
117-84-0Di-n-octylphthalate	330	U
205-99-2Benzo(b)fluoranthene	330	บ
207-08-9Benzo(k) fluoranthene	330	U
50-32-8Benzo(a)pyrene	330	U
193-39-5Indeno(1,2,3-cd)pyrene	330	ש
53-70-3Dibenz(a,h)anthracene	330	ן ט
191-24-2Benzo(g,h,i)perylene	330	U
110-86-1Pyridine	330	U
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EPA SAMPLE NO.

10SB117

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.01

Sample wt/vol: 31.7 (g/mL) G

Lab File ID:

M10326.D

LOW

% Moisture: not dec. 6 dec.

Level: (low/med)

Date Received: 05/16/98

Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.8

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene

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INORGANIC ANALYSES DATA SHEET

OT TENTE	CANADA		_
CLIENT	SAMPL	E II	ر

			10SB117
b Name: SOUTHWEST_I b Code: SWOK_ trix (soil/water): evel (low/med): Solids:	Case No.:	Contract:S. 33998 SAS No	

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	12.1			P
7440-39-3	Barium	3.8	-		$_{\rm P}^-$
7440-43-9	Cadmium	0.03	ਹ		P_
7440-47-3	Chromium	2.8			P
7439-92-1	Lead	4.5	-		P_
7439-97-6	Mercury	0.04	ਹ		ΑV
7782-49-2	Selenium	0.26		EN	F
7440-22-4	Silver	0.12	U		P
7440-22-4	211/61		١١		
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EPA SAMPLE NO.

10SB118

ab Name: SWL-TULSA

Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

latrix: (soil/water) SOIL

Lab Sample ID: 33998.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: I27131.D

Date Received: 05/16/98

_level: (low/med) LOW

Date Analyzed: 05/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Moisture: not dec. 8

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

74-87-3	555572555555555555555555555555555555555	ממממממממממממממממממממממ
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EPA SAMPLE NO.

10SB118

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

latrix: (soil/water) SOIL Lab Sample ID: 33998.02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I27131.D

_evel: (low/med) LOW Date Received: 05/16/98

Moisture: not dec. 8 Date Analyzed: 05/20/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

			1
75-69-4 74-95-3 96-12-8 108-86-1 104-51-8 98-06-6 135-98-8 95-49-8 541-73-1 106-46-7 142-28-9 594-20-7 563-58-6 87-68-3 99-87-6 91-20-3 103-65-1 87-61-6 120-82-1	DIBROMOMETHANE1 2-DIBROMO-3-CHLOROPROPANEBROMOBENZENEn-BUTYLBENZENEtert-BUTYLBENZENEsec-BUTYLBENZENE2-CHLOROTOLUENE1 2-DICHLOROBENZENE1 3-DICHLOROBENZENE1 3-DICHLOROBENZENE1 3-DICHLOROPROPANE1 1-DICHLOROPROPANE1 1-DICHLOROPROPANE1 1-DICHLOROPROPENE	555555654555555555555555555555555555555	מממלמממממממממממממ מממממם
87-61-6 120-82-1 95-63-6 108-67-8	1 2 3-TRICHLOROBENZENE 1 2 4-TRICHLOROBENZENE 1 2 4-TRIMETHYLBENZENE	5	U

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FORT HOOD 0

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

Matrix: (soil/water) SOIL Lab Sample ID: 33998.02

Sample wt/vol: 31.2 (g/mL) G Lab File ID: M10340.D

Level: (low/med) LOW Date Received: 05/16/98

% Moisture: not dec. 8 dec. Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/20/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

C110 110.	(*5,** 5.		
108-95-2	Dhenol	340	ט
111-44-4	bis(2-Chloroethyl)ether	340	ש
05 57 9	2-Chlorophenol	340	ַ ט
53-37-8	1,3-Dichlorobenzene	340	וט
100 46 7	1 4-Dichlorobenzene	340	U
100-46-7	Benzyl alcohol	340	Ū
100-21-6	1,2-Dichlorobenzene	340	Ū
95-50-1	2 Matherlahanal	340	บ
95-48-/	2-Methylphenol	340	บั
108-60-1	bis(2-Chloroisopropyl)ether_	340	<u>ט</u>
106-44-5	4-Methylphenol	340	บ
621-64-7	N-Nitroso-di-n-propylamine	340	Ü
	Hexachloroethane	340	וט
98-95-3	Nitrobenzene	340	ט ו
78-59-1	Isophorone 2-Nitrophenol		บ
88-75-5	2-Nitrophenol	340	
	2,4-Dimethylphenol	340	U
65-85-0	Benzoic Acid	1700	Ū
111-91-1	bis(2-Chloroethoxy)methane	340	ū
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	Ŭ
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
	2,4,6-Trichlorophenol	340	ָ ט
05-05-4	2,4,5-Trichlorophenol	1700	ប
01-50-7	2-Chloronaphthalene	340	
91-30-7	2-Nitroaniline	1700	1
121 11 2	Dimethylphthalate	340	
131-11-3	Agonombehing one	340	1
208-96-8	Acenaphthylene	340	Ŭ
006-20-2	2,6-Dinitrotoluene]	
1	-	l	

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Contract: FORT HOOD O Lab Name: SWL-TULSA

10SB118

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.02

Sample wt/vol: 31.2 (g/mL) G

Lab File ID: M10340.D

Level: (low/med) LOW

Date Received: 05/16/98

% Moisture: not dec. 8 dec.

Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/20/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

	(437 = 43		
	99-09-23-Nitroaniline	1700	ט
	83-32-9Acenaphthene	340	ן ט
	121-14-22,4-Dinitrotoluene	340	ן ט
	51-28-52,4-Dinitrophenol	1700	Ŭ
	100 02 7 A Nitrophonel	 1700	Ū
	100-02-74-Nitrophenol	— 1700 340	Ü
	132-64-9Dibenzofuran	340	Ŭ
	84-66-2Diethylphthalate		Ü
	7005-72-34-Chlorophenyl-phenylether	340	Ü
1	86-73-7Fluorene	1700	Ü
	100-01-64-Nitroaniline		ี ปี
	534-52-14,6-Dinitro-2-methylpheno		ט ט
	86-30-6N-Nitrosodiphenylamine (1)	340	
	101-55-34-Bromophenylphenylether_	340	
ļ	118-74-1Hexachlorobenzene	340	
1	87-86-5Pentachlorophenol	1700	
	85-01-8Phenanthrene	340	
	120-12-7Anthracene	340	
١	84-74-2Di-n-butylphthalate	340	U
	206-44-0Fluoranthene	340	
	129-00-0Pyrene	340	
	85-68-7Butylbenzylphthalate	340	
-	91-94-13,3'-Dichlorobenzidine	690	
	56-55-3Benzo(a)anthracene	340	ן ט
	218-01-9Chrysene	340	ן ט
1	117-81-7bis(2-Ethylhexyl)phthalate	e 340	ן ט
	117-84-0Di-n-octylphthalate	340	ן ט
١	205-99-2Benzo(b) fluoranthene	340	ן ט
	207-08-9Benzo(k) fluoranthene		
-	50-32-8Benzo(a) pyrene	340	1 1
	193-39-5Indeno(1,2,3-cd)pyrene		
	53-70-3Dibenz (a, h) anthracene		1 1
	191-24-2Benzo(g,h,i)perylene	340	
	110-86-1Pyridine	340	
	TIO-00-I		1 1
- 1	-		.

EPA SAMPLE NO.

10SB118

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.02

Sample wt/vol:

31.2 (g/mL) G

Lab File ID: M10340.D

Date Received: 05/16/98

Level:

(low/med) LOW

% Moisture: not dec. 8 dec.

Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc)

Date Analyzed: 05/20/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 9.2

SONC

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

0

Ū

95-94-3-----1,2,4,5-Tetrachlorobenzene_

340

INORGANIC ANALYSES DATA SHEET

CLIENT	SAMPLE	II :
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								10	SB118	3	
b	Name:	SOUTHWEST LA	B OF	OK	1	Contract:SAIC					
b	Code:	SWOK	Case	No.:	33998	SAS No.:	s	DG		33998A	

Lab Sample ID: 33998.02 Date Received: 05/16/98 trix (soil/water): SOIL_ evel (low/med):

LOW___91.6 Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

					 ,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2 7440-39-3	Arsenic Barium	6.4	_ _		P_ P
7440-43-9 7440-47-3	Cadmium_ Chromium	0.03	ਹ		P P
7439-92-1 7439-97-6	Lead_ Mercury_	4.6			P AV
7782-49-2 7440-22-4	Selenium_ Silver	0.25	B	EN_	F_
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olor Before: olor After:	BROWN	Clarity Before: Clarity After:	Texture: MEDIUM Artifacts:
ments:			
	<u>·</u>	FORM I - IN	

EPA SAMPLE NO.

10SB119

Contract: FORT HOOD ab Name: SWL-TULSA

SDG No.: 33998 ab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 33998.03

latrix: (soil/water) SOIL

ample wt/vol: Lab File ID: I27217.D 5.0 (g/mL) G

Date Received: 05/16/98 Level: (low/med) LOW

Moisture: not dec. 7 Date Analyzed: 05/26/98

Dilution Factor: 1.0 Column: (pack/cap) CAP

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q CAS NO. COMPOUND

U 5 U 74-83-9-----BROMOMETHANE 5 U 75-01-4-----VINYL CHLORIDE 5 U 75-00-3-----CHLOROETHANE 14 В 75-09-2-----METHYLENE CHLORIDE IJ 5 67-64-1-----ACETONE 5 U 75-35-4----- 1 1-DICHLOROETHENE 5 U 75-34-3-----1 1-DICHLOROETHANE 5 U 67-66-3-----CHLOROFORM 5 U 107-06-2----1 2-DICHLOROETHANE 5 U 78-93-3----2-BUTANONE 5 U 71-55-6-----1 1 1-TRICHLOROETHANE 5 U 56-23-5-----CARBON TETRACHLORIDE U 75-27-4-----BROMODICHLOROMETHANE 5 U 78-87-5-----1 2-DICHLOROPROPANE U 79-01-6----TRICHLOROETHENE U 124-48-1-----DIBROMOCHLOROMETHANE U 79-00-5----1 1 2-TRICHLOROETHANE U 71-43-2----BENZENE 3 J 75-25-2-----BROMOFORM 5 U 108-10-1----4-METHYL-2-PENTANONE 5 U 591-78-6----2-HEXANONE 5 U 127-18-4----TETRACHLOROETHENE 2 J 108-88-3-----TOLUENE 5 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE 5 U 108-90-7-----CHLOROBENZENE 5 U 100-41-4----ETHYL BENZENE 5 U 100-42-5----STYRENE 5 U 156-59-2-----cis-1 2-DICHLOROETHENE 5 U 156-60-5-----trans-1 2-DICHLOROETHENE J 13-302-07----m,p-XYLENES U 95-47-6----O-XYLENE U 106-93-4----1 2-DIBROMOETHANE 5 U 630-20-6----- 1 1 1 2-TETRACHLOROETHANE

EPA SAMPLE NO.

10SB119

ab Name: SWL-TULSA

Contract: FORT HOOD

ab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 33998

[atrix: (soil/water) SOIL

Lab Sample ID: 33998.03

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: I27217.D

level: (low/med) LOW

Date Received: 05/16/98

Moisture: not dec. 7

Date Analyzed: 05/26/98

Column: (pack/cap) CAP

CAS NO.

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	5	U
75-71-8DICHLORODIFLUOROMETHANE	5	U
75-69-4TRICHLOROFLUOROMETHANE	5	Ŭ
74-95-3DIBROMOMETHANE	5	Ū
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1BROMOBENZENE	5	IJ
104-51-8n-BUTYLBENZENE	5	U
98-06-6tert-BUTYLBENZENE	5	U
135-98-8sec-BUTYLBENZENE	5	U
95-49-82-CHLOROTOLUENE	5	U
106-43-44-CHLOROTOLUENE	5	U
95-50-11 2-DICHLOROBENZENE	5	Ü
541-73-11 3-DICHLOROBENZENE	5	U
106-46-71 4-DICHLOROBENZENE	5	U
142-28-91 3-DICHLOROPROPANE	5	U
594-20-72 2-DICHLOROPROPANE	5	IJ
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	5	U
99-87-6p-ISOPROPYLTOLUENE	5	Ū
91-20-3NAPHTHALENE	5	U
103-65-1n-PROPYLBENZENE	5	U
87-61-61 2 3-TRICHLOROBENZENE	5	U
120-82-11 2 4-TRICHLOROBENZENE	5	U
95-63-61 2 4-TRIMETHYLBENZENE	5	U
108-67-81 3 5-TRIMETHYLBENZENE	5	U
74-97-5BROMOCHLOROMETHANE	5	U

1B EPA SAMPLE NO. SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FORT HOOD O

10SB119

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

Matrix: (soil/water) SOIL Lab Sample ID: 33998.03

Sample wt/vol: 32.9 (g/mL) G Lab File ID: M10327.D

Level: (low/med) LOW Date Received: 05/16/98

% Moisture: not dec. 7 dec. Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

		1
108-95-2Phenol	320	וט
111-44-4bis(2-Chloroethyl)ether	320	ŭ
95-57-82-Chlorophenol	320	Ŭ
541-73-11,3-Dichlorobenzene	320	Ü
106-46-71,4-Dichlorobenzene	320	ان
100-51-6Benzyl alcohol	320	Ü
95-50-11,2-Dichlorobenzene	320	ΰl
95-48-72-Methylphenol	320	וט
108-60-1bis(2-Chloroisopropyl)ether	320	Ü
106-44-54-Methylphenol	320	บั
621-64-7N-Nitroso-di-n-propylamine	320	Ū
67-72-1Hexachloroethane	320	Ŭ
98-95-3Nitrobenzene	320	Ŭ
78-59-1Isophorone	320	Ŭ
88-75-52-Nitrophenol	320	์ <u>บ</u>
105-67-92,4-Dimethylphenol	320	Ŭ
65-85-0Benzoic Acid	1600	ע
111-91-1bis (2-Chloroethoxy) methane	320	Ŭ
120-83-22,4-Dichlorophenol	320	Ū
120-82-11,2,4-Trichlorobenzene	320	Ü
91-20-3Naphthalene	320	Ŭ
106-47-84-Chloroaniline	320	Ū
87-68-3Hexachlorobutadiene	320	Ū
59-50-74-Chloro-3-methylphenol	320	บ
91-57-62-Methylnaphthalene	320	Ū
77-47-4Hexachlorocyclopentadiene	320	Ū
88-06-22,4,6-Trichlorophenol	320	Ū
95-95-42,4,5-Trichlorophenol	1600	บ
91-58-72-Chloronaphthalene	320	Ŭ
88-74-42-Nitroaniline	1600	Ŭ
131-11-3Dimethylphthalate	320	บั
208-96-8Acenaphthylene	320	Ū
606-20-22,6-Dinitrotoluene	320	וֹ טֿ
2,0 Difficiocoluctic]	
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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB119 Contract: FORT HOOD O Lab Name: SWL-TULSA

SDG No.: 33998 Lab Code: SWOK Case No.: SAIC SAS No.:

Lab Sample ID: 33998.03 Matrix: (soil/water) SOIL

Lab File ID: M10327.D 32.9 (g/mL) G Sample wt/vol:

Date Received: 05/16/98 Level: (low/med) LOW

Date Extracted:05/18/98 % Moisture: not dec. 7 dec.

Date Analyzed: 05/19/98

Extraction: (SepF/Cont/Sonc) SONC

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 9.2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND CAS NO.

EPA SAMPLE NO.

10SB119

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33998

32.9 (g/mL) G

Lab File ID: M10327.D

Sample wt/vol:

Date Received: 05/16/98

Level: (low/med)

Concentrated Extract Volume:

% Moisture: not dec. 7

Matrix: (soil/water) SOIL

LOW

Date Extracted: 05/18/98

Lab Sample ID: 33998.03

dec.

Date Analyzed: 05/19/98

Extraction: (SepF/Cont/Sonc) SONC

GPC Cleanup: (Y/N) N pH: 9.2

1000 (uL)

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene_

320

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INORGANIC ANALYSES DATA SHEET

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	CAMELLE	

	10SB119
b Name: SOUTHWEST_LAB_OF_OK Contract:SAIC	220002
D Code: Swork Case No.: 33330 Size No.:	SDG No.: 33998A
	ID: 33998.03
wel (low/med). LOW Date Recei	ved: 05/16/98

trix (soil/wate vel (low/med): LOW 93.3Solids:

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.				- 1		
7440-39-3 Barium 5.1 P7440-43-9 Cadmium 0.03 U P7440-47-3 Chromium 2.8 P7439-92-1 Lead 2.8 P7439-97-6 Mercury 0.04 U N AV 7782-49-2 Selenium 1.1 U WN F	CAS No.	Analyte	Concentration	С	Q	М
7440-39-3 Barium 5.1 P 7440-43-9 Cadmium 0.03 U P 7440-47-3 Chromium 2.8 P 7439-92-1 Lead 2.8 P 7439-97-6 Mercury 0.04 U N AV 7782-49-2 Selenium 1.1 U WN F	7440-38-2	Arsenic	2.7	-		P
7440-43-9 Cadmium				-		P
7439-92-1 Lead 2.8 P P AV			0.03	ਹ		P
7439-92-1 Lead 2.8 P P AV						P
7439-97-6 Mercury 0.04 U N AV 7782-49-2 Selenium 1.1 U WN F			2 8	-		P
7782-49-2 Selenium 1.1 U WN F				₹₹	N	
7/82-49-2 7440-22-4 Silver 0.12 U P		Golonium.				
7440-22-4 SIIVEL 0.12 0				1 - 1		P-
	/440-22-4	211AGT	0.12	١٠١		-
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olor Before: olor After:	BROWNYELLOW	Clarity Before: Clarity After:	Texture: Artifacts:	MEDIUM
rents:				
		FORM I - IN		

FHSB266

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

atrix: (soil/water) SOIL Lab Sample ID: 33998.08

ample wt/vol: 5.0 (g/mL) G Lab File ID: I27220.D

evel: (low/med) LOW Date Received: 05/16/98

Moisture: not dec. 7 Date Analyzed: 05/27/98

folumn: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	1	
74-87-3CHLOROMETHANE	5	ט
74-83-9BROMOMETHANE	5	U
75-01-4VINYL CHLORIDE	5	וט
75-00-3CHLOROETHANE	5	ן ט
75-09-2METHYLENE CHLORIDE	10	В
67-64-1ACETONE	5	וט
75-35-41 1-DICHLOROETHENE	5	וט
75-34-31 1-DICHLOROETHANE	5	ט
67-66-3CHLOROFORM	5	ט
107-06-21 2-DICHLOROETHANE	5	ט
78-93-32-BUTANONE	5	Ū
71-55-61 1 1-TRICHLOROETHANE	5	Ŭ
56-23-5CARBON TETRACHLORIDE	5	וֹט
75-27-4BROMODICHLOROMETHANE	5	Ū
78-87-51 2-DICHLOROPROPANE	. 5	Ü
70 07 3	5	Ü
	5	וֹט
	5	บ
· · · · · · · · · · · · · · · · · · ·	5	Ü
71-43-2BENZENE	5	υ
75-25-2BROMOFORM	5	υ
108-10-14-METHYL-2-PENTANONE	5 5	ט
591-78-62-HEXANONE	5	ט
127-18-4TETRACHLOROETHENE		
108-88-3TOLUENE	. 5	Ū
79-34-51 1 2 2-TETRACHLOROETHANE	5	U
108-90-7CHLOROBENZENE	5	U
100-41-4ETHYL BENZENE	5	U
100-42-5STYRENE	5	ָט
156-59-2cis-1 2-DICHLOROETHENE	5	Ū
156-60-5trans-1 2-DICHLOROETHENE	. 5	ַ
13-302-07m,p-XYLENES	- 5	U
95-47-6O-XYLENE	5	<u></u> ע
106-93-41 2-DIBROMOETHANE	5	ן ט
630-20-61 1 1 2-TETRACHLOROETHANE	5	U
	·	

EPA SAMPLE NO.

FHSB266

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33998

atrix: (soil/water) SOIL

Lab Sample ID: 33998.08

ample wt/vol:

5.0 (g/mL) G

Lab File ID: I27220.D

evel: (low/med)

LOW

Date Received: 05/16/98

Moisture: not dec. 7

Moisture: not dec. /

Date Analyzed: 05/27/98

olumn: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

EPA SAMPLE NO.

FHSB266RE

lab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.08RA

Jample wt/vol:

5.0 (q/mL) G

Lab File ID: I27308.D

Level: (low/med) LOW

Date Received: 05/16/98

Moisture: not dec. 7

Date Analyzed: 06/03/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

74-87-3	555547555555555555555555555555555555555	ממממממממממממממממממ שממממ
156-60-5trans-1 2-DICHLOROETHENE	5	ט

FHSB266RE

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

atrix: (soil/water) SOIL Lab Sample ID: 33998.08RA

ample wt/vol: 5.0 (g/mL) G Lab File ID: I27308.D

evel: (low/med) LOW Date Received: 05/16/98

Moisture: not dec. 7 Date Analyzed: 06/03/98

olumn: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

EPA SAMPLE NO.

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

Matrix: (soil/water) SOIL Lab Sample ID: 33998.08

Sample wt/vol: 31.1 (g/mL) G Lab File ID: M10328.D

Level: (low/med) LOW Date Received: 05/16/98

% Moisture: not dec. 7 dec. Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	<u>-</u>	
108-95-2Phenol	340	U
111-44-4bis(2-Chloroethyl)ether	340	Ü
95-57-82-Chlorophenol	340	Ŭ
541-73-11,3-Dichlorobenzene	340	Ŭ
106-46-71,4-Dichlorobenzene	340	Ü
100-51-6Benzyl alcohol	340	บี
95-50-11,2-Dichlorobenzene	340	Ü
95-48-72-Methylphenol	340	Ü
108-60-1bis(2-Chloroisopropyl)ether	340	Ü
106-44-54-Methylphenol	340	Ü
621-64-7N-Nitroso-di-n-propylamine	340	Ü
67-72-1Hexachloroethane	340	Ü
98-95-3Nitrobenzene	340	Ū
78-59-1Isophorone	340	Ū
88-75-52-Nitrophenol	340	Ü
105-67-92,4-Dimethylphenol	340	Ū
65-85-0Benzoic Acid	1600	บี
111-91-1bis(2-Chloroethoxy)methane	340	ָ ปั
120-83-22,4-Dichlorophenol	340	บ
120-82-11,2,4-Trichlorobenzene	340	<u>ט</u>
91-20-3Naphthalene	340	Ü
106-47-84-Chloroaniline	340	บี
87-68-3Hexachlorobutadiene	340	Ū
59-50-74-Chloro-3-methylphenol	340	ָ ע
91-57-62-Methylnaphthalene	340	Ü
77-47-4Hexachlorocyclopentadiene	340	บี
88-06-22,4,6-Trichlorophenol	340	บี
95-95-42,4,5-Trichlorophenol	1600	บี
91-58-72-Chloronaphthalene	340	บี
88-74-42-Nitroaniline	1600	บ
131-11-3Dimethylphthalate	340	บี
208-96-8Acenaphthylene	340	บี
606-20-22,6-Dinitrotoluene	340	τ
2,0 Dinitionoruene	240	U
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EPA SAMPLE NO.

FHSB266

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33998

Matrix: (soil/water) SOIL Lab Sample ID: 33998.08

Sample wt/vol: 31.1 (g/mL) G Lab File ID: M10328.D

Level: (low/med) LOW Date Received: 05/16/98

% Moisture: not dec. 7 dec. Date Extracted:05/18/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		.	
1	99-09-23-Nitroaniline 83-32-9Acenaphthene	1600 3 4 0	ָ ט
١	121-14-22,4-Dinitrotoluene	340	Ü
	51-28-52,4-Dinitrophenol	1600	וט
1	100-02-74-Nitrophenol	1600	ט
ļ	132-64-9Dibenzofuran	340	ַ ט
1	84-66-2Diethylphthalate	340	U
	7005-72-34-Chlorophenyl-phenylether	340	U
	86-73-7Fluorene	340	ע
	100-01-64-Nitroaniline	1600	ע
-	534-52-14,6-Dinitro-2-methylphenol	1600	U
	86-30-6N-Nitrosodiphenylamine_(1)	340	U
١	101-55-34-Bromophenylphenylether	340	U
J	118-74-1Hexachlorobenzene	340	ַט
1	87-86-5Pentachlorophenol	1600	U
	85-01-8Phenanthrene	340	U
	120-12-7Anthracene	340	U
	84-74-2Di-n-butylphthalate	340	Ū
	206-44-0Fluoranthene	340	U
	129-00-0Pyrene	340	U
	85-68-7Butylbenzylphthalate	340	U
	91-94-13,3'-Dichlorobenzidine	680	ŭ
	56-55-3Benzo(a)anthracene	340	U U
	218-01-9Chrysene	340 340	ש
	117-81-7bis(2-Ethylhexyl)phthalate	340	บ
	117-84-0Di-n-octylphthalate	340	Ü
	205-99-2Benzo(b)fluoranthene	340	Ü
	207-08-9Benzo(k)fluoranthene 50-32-8Benzo(a)pyrene	340	υ
	193-39-5Indeno(1,2,3-cd)pyrene	340	ŭ
	53-70-3Dibenz(a,h)anthracene	340	ָ ע
	191-24-2Benzo(g,h,i)perylene	340	ן ט
	110-86-1Pyridine	340	υ
	TIO OO I TITTE	240	
	•		I

EPA SAMPLE NO.

FHSB266

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 33998

Matrix: (soil/water) SOIL

Lab Sample ID: 33998.08

Sample wt/vol:

31.1 (g/mL) G

Lab File ID: M10328.D

Level:

(low/med) LOW

Date Received: 05/16/98

% Moisture: not dec. 7 dec.

Date Extracted: 05/18/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/19/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 9.2

Dilution Factor: 1.0

CONCENTRATION UNITS:

Q

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

U

95-94-3-----1,2,4,5-Tetrachlorobenzene

340

1 INORGANIC ANALYSES DATA SHEET

CLIE	ידינג	CZ	MDT	₽.	ID
	IN I	SA	MPL	114	111

INORGANIC ANALISES DATA SHEET	
	FHSB266
b Name: SOUTHWEST LAB OF OK Contract:SAIC	
b Code: SWOK Case No.: 33998 SAS No.:	DG No.: 33998A
	ID: 33998.08
vel (low/med): LOW Date Receive	<i>r</i> ed: 05/16/98
Solids: _92.8	

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	6.4	-		P
7440-39-3	Barium	3.3	-		P_
7440-43-9	Cadmium	0.03	ਹ		P_
7440-47-3	Chromium	2.2			P
7439-92-1	Lead	4.5	-		₽_
7439-97-6	Mercury	0.03	ਹ		ΑV
7782-49-2	Selenium	0.23	U	N	F_
7440-22-4	Silver	0.12	ַ		P_
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olor Before: olor After:	BROWN	Clarity Before: Clarity After:		Texture: Artifacts:	MEDIUM
nents:					
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		FORM T - TN	J		

EPA SAMPLE NO.

10SB120

Contract: FORT HOOD ab Name: SWL-TULSA

ab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 34034

atrix: (soil/water) SOIL

Lab Sample ID: 34034.01

Lab File ID:

I27245.D

ample wt/vol:

5.0 (g/mL) G

Date Received: 05/20/98

evel: (low/med) LOW

Moisture: not dec. 9

Date Analyzed: 05/27/98

olumn: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

13-302-07m,p-XYLENES

EPA SAMPLE NO.

10SB120

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34034

atrix: (soil/water) SOIL Lab Sample ID: 34034.01

ample wt/vol: 5.0 (g/mL) G Lab File ID: I27245.D

evel: (low/med) LOW Date Received: 05/20/98

Moisture: not dec. 9 Date Analyzed: 05/27/98

olumn: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-4	555555555555555	מממממממממ
75-69-4TRICHLOROFLUOROMETHANE		1
74-95-3DIBROMOMETHANE		- 1
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	ע
108-86-1BROMOBENZENE	5	- 1
104-51-8n-BUTYLBENZENE	5	
98-06-6tert-BUTYLBENZENE		ָּע
135-98-8sec-BUTYLBENZENE	5	
95-49-82-CHLOROTOLUENE	5	_
106-43-44-CHLOROTOLUENE	5	
95-50-11 2-DICHLOROBENZENE	5	
541-73-11 3-DICHLOROBENZENE	5	ן די
106-46-71 4-DICHLOROBENZENE	5	ן ט
142-28-91 3-DICHLOROPROPANE	5	U
594-20-72 2-DICHLOROPROPANE	.5	U
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	5	ן ט
99-87-6p-ISOPROPYLTOLUENE	5	ן ט
91-20-3NAPHTHALENE	5	U U
103-65-1n-PROPYLBENZENE	5	ן ט
87-61-61 2 3-TRICHLOROBENZENE	5	U
120-82-11 2 4-TRICHLOROBENZENE	. 5	ן ט
95-63-61 2 4-TRIMETHYLBENZENE	5	U
108-67-81 3 5-TRIMETHYLBENZENE	5	Ū
74-97-5BROMOCHLOROMETHANE	5	U

EPA SAMPLE NO.

10SB120RE

ab Name: SWL-TULSA Contract: FORT HOOD

ab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34034

Matrix: (soil/water) SOIL Lab Sample ID: 34034.01RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: I27247.D

_evel: (low/med) LOW Date Received: 05/20/98

Moisture: not dec. 9 Date Analyzed: 05/27/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	5	U
74-83-9BROMOMETHANE	. 5	וט
75-01-4VINYL CHLORIDE	5	U
75-00-3CHLOROETHANE	5	ע
75-09-2METHYLENE CHLORIDE	9	
67-64-1ACETONE	5	Ū
75-35-41 1-DICHLOROETHENE	5	U
75-34-31 1-DICHLOROETHANE	5	U
67-66-3CHLOROFORM	5	ַ ט
107-06-21 2-DICHLOROETHANE	5	U
78-93-32-BUTANONE	5	U
71-55-61 1 1-TRICHLOROETHANE	5	U
56-23-5CARBON TETRACHLORIDE	5	U
75-27-4BROMODICHLOROMETHANE	5	ט
78-87-51 2-DICHLOROPROPANE	5	U
79-01-6TRICHLOROETHENE	5	U
124-48-1DIBROMOCHLOROMETHANE	5	Ŭ
79-00-51 1 2-TRICHLOROETHANE	5	U
71-43-2BENZENE	5	U
75-25-2BROMOFORM	5	ן די
108-10-14-METHYL-2-PENTANONE	5	ָ ד
591-78-62-HEXANONE	5	U
127-18-4TETRACHLOROETHENE	5	U
108-88-3TOLUENE	. 5	U U
79-34-51 1 2 2-TETRACHLOROETHANE	5	U U
108-90-7CHLOROBENZENE	5	ן ט
100-41-4ETHYL BENZENE	5	ן ט
100-42-5STYRENE	5	ט
156-59-2cis-1 2-DICHLOROETHENE	5	ן ט
156-60-5trans-1 2-DICHLOROETHENE	5	ן דע
13-302-07m,p-XYLENES	5	ע
95-47-6O-XYLENE	5	ן ט
106-93-41 2-DIBROMOETHANE	5	ן ט
630-20-61 1 1 2-TETRACHLOROETHANE	5	ן ע
	•	
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EPA SAMPLE NO.

10SB120RE

ab Name: SWL-TULSA

Contract: FORT HOOD

SDG No.: 34034

ab Code: SWOK Case No.: SAIC

SAS No.:

atrix: (soil/water) SOIL

Lab Sample ID: 34034.01RA

ample wt/vol: 5.0 (g/mL) G

Lab File ID: I27247.D

evel: (low/med) LOW

Date Received: 05/20/98

Moisture: not dec. 9

Date Analyzed: 05/27/98

olumn: (pack/cap) CAP

CAS NO.

Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	5	Ū
75-71-8DICHLORODIFLUOROMETHANE	. 5	ן ט
75-69-4TRICHLOROFLUOROMETHANE	5	ן ט
74-95-3DIBROMOMETHANE	5	ן די
96-12-81 2-DIBROMO-3-CHLOROPROPANE	5	ן ט
108-86-1BROMOBENZENE	5	ן די
104-51-8n-BUTYLBENZENE	5	U
98-06-6tert-BUTYLBENZENE	5	ן די
135-98-8sec-BUTYLBENZENE	5	ן די
95-49-82-CHLOROTOLUENE	5	ן ט
106-43-44-CHLOROTOLUENE	5	ן ט
95-50-11 2-DICHLOROBENZENE	5	ן ט
541-73-11 3-DICHLOROBENZENE	5	U
106-46-71 4-DICHLOROBENZENE	5	U
142-28-91 3-DICHLOROPROPANE	5	U
594-20-72 2-DICHLOROPROPANE	5	U
563-58-61 1-DICHLOROPROPENE	5	U
87-68-3HEXACHLOROBUTADIENE	5	U
98-82-8ISOPROPYLBENZENE	5	U
99-87-6p-ISOPROPYLTOLUENE	5	U
91-20-3NAPHTHALENE	1 5	U
103-65-1n-PROPYLBENZENE	5	l . U
87-61-61 2 3-TRICHLOROBENZENE	5	U
120-82-11 2 4-TRICHLOROBENZENE	5	U
95-63-61 2 4-TRIMETHYLBENZENE	5	U
108-67-81 3 5-TRIMETHYLBENZENE	5	U
74-97-5BROMOCHLOROMETHANE	5	ט ו
74-37-3 BROMOCHEOKOMETHAME	•	
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EPA SAMPLE NO.

10SB120

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34034

Case No.: billo bill No.

Matrix: (soil/water) SOIL Lab Sample ID: 34034.01

Sample wt/vol: 31.5 (g/mL) G Lab File ID: M10393.D

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: not dec. 9 dec. Date Extracted:05/21/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/22/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

Thomas	340	ט
108-95-2Phenol	340	Ŭ
111-44-4bis(2-Chloroethyl)ether	340	Ü
95-57-82-Chlorophenol	340	ŭ
541-73-11,3-Dichlorobenzene 106-46-71,4-Dichlorobenzene	340	Ü
106-46-71,4-Dichlorobenzene	340	ŭ
100-51-6Benzyl alcohol	1	וט
95-50-11,2-Dichlorobenzene	340	บ
95-48-72-Methylphenol	340	
108-60-1bis(2-Chloroisopropyl)ether_	340	ū
106-44-54-Methylphenol	340	ŭ
621-64-7N-Nitroso-di-n-propylamine	340	ַ
67-72-1Hexachloroethane	340	ט
98-95-3Nitrobenzene	340	บ
78-59-1Isophorone	340	U
88-75-52-Nitrophenol	340	U
105-67-92,4-Dimethylphenol	340	U
65-85-0Benzoic Acid	1700	U
111-91-1bis(2-Chloroethoxy)methane_	340	U
120-83-22,4-Dichlorophenol	340	U
120-82-11,2,4-Trichlorobenzene	340	U
91-20-3Naphthalene	340	บ
106-47-84-Chloroaniline	340	Ū
87-68-3Hexachlorobutadiene	340	Ū
59-50-74-Chloro-3-methylphenol	340	Ū
01 57 C 2 Mothylpaphthalono	340	Ū
91-57-62-Methylnaphthalene	340	Ŭ
77-47-4Hexachlorocyclopentadiene	340	บี
88-06-22,4,6-Trichlorophenol	1700	1
95-95-42,4,5-Trichlorophenol	340	บี
91-58-72-Chloronaphthalene	1700	
88-74-42-Nitroaniline	•	ี ซี
131-11-3Dimethylphthalate	340	U U
208-96-8Acenaphthylene	340	U
606-20-22,6-Dinitrotoluene	340	l 0
		l

EPA SAMPLE NO.

10SB120

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34034

Matrix: (soil/water) SOIL Lab Sample ID: 34034.01

Sample wt/vol: 31.5 (g/mL) G Lab File ID: M10393.D

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: not dec. 9 dec. Date Extracted:05/21/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/22/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAB NO.	J. ,	
99-09-23-Nitroaniline	1700	ָּט
83-32-9Acenaphthene	340	Ū
121-14-22,4-Dinitrotoluene	340	<u></u> ט
51-28-52,4-Dinitrophenol	1700	ŭ
100-02-74-Nitrophenol	1700	ŭ
132-64-9Dibenzofuran	340	ŭ
132-64-yDipelizoruran	340	ŭ
84-66-2Diethylphthalate	340	Ü
7005-72-34-Chlorophenyl-phenylether	340	บี
86-73-7Fluorene	1700	<u>ט</u>
100-01-64-Nitroaniline	1700	וט
534-52-14,6-Dinitro-2-methylphenol	340	ŭ
86-30-6N-Nitrosodiphenylamine_(1)	340	اق
101-55-34-Bromophenylphenylether		וט
118-74-1Hexachlorobenzene	340	Ü
87-86-5Pentachlorophenol	1700	
85-01-8Phenanthrene	340	U
120-12-7Anthracene	340	ū
84-74-2Di-n-butylphthalate	340	ָ <u>ַ</u> עַ
206-44-0Fluoranthene	340	Ū
129-00-0Pyrene	340	ū
85-68-7Butylbenzylphthalate	340	U
91-94-13,37-Dichlorobenzidine	690	ַ
56-55-3Benzo(a)anthracene	340	U
218-01-9Chrysene	340	ַ
117-81-7bis(2-Ethylhexyl)phthalate	340	U
117-84-0Di-n-octylphthalate	340	ַ "
205-99-2Benzo(b) fluoranthene	340	ן די
207-08-9Benzo(k) fluoranthene	340	U
50-32-8Benzo(a)pyrene	340	ן די
193-39-5Indeno(1,2,3-cd)pyrene	340	ן די
53-70-3Dibenz(a,h)anthracene	340	ן ט
191-24-2Benzo(g,h,i)perylene	340	ן ט
110-86-1Pyridine	340	U
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EPA SAMPLE NO.

10SB120

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34034

Matrix: (soil/water) SOIL

Lab Sample ID: 34034.01

Sample wt/vol:

31.5 (g/mL) G

Lab File ID:

M10393.D

Level:

(low/med) LOW Date Received: 05/20/98

% Moisture: not dec. 9

dec.

Date Extracted: 05/21/98

Extraction: (SepF/Cont/Sonc)

SONC

Date Analyzed: 05/22/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 6.4

Dilution Factor: 1.0

CONCENTRATION UNITS:

Q

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

U

95-94-3-----1,2,4,5-Tetrachlorobenzene_

340

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INORGANIC	ANALYSES	DATA	SHEET

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CLIENT	- 1	2M	٧L	LL	- 11

b Name: SOUTHWEST I	LAB OF OK	Contract:SAIC	10SB120
b Code: SWOKtrix (soil/water): vel (low/med):	Case No.: 3403 SOIL_ LOW	SAS No.: Lab Sample	SDG No.: 34034_ e ID: 34034.01 ived: 05/20/98
Solids:	_90.9		

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7440-38-2	Arsenic	4.5	-		P
7440-39-3	Barium	3.9	-		P
7440-43-9	Cadmium	0.03	ਹਿ		P_
7440-47-3	Chromium	2.5			P_
7439-92-1	Lead	3.7	-		P
7439-97-6	Mercury	0.04	ਹ		ΑV
7782-49-2	Selenium	0.23	U	WN	F
7440-22-4	Silver	0.13	ט		P
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Color Before: Color After:	BROWN	Clarity Before:	Texture: MEDIUM Artifacts:
'ments:		-	
		FORM I - IN	

10PZ101

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.11

Sample wt/vol: 5.0 (g/mL) MLLab File ID: UL5286.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. Date Analyzed: 06/15/98

Column: (pack/cap) CAP Dilution Factor: 1.0

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

74-87-3CHLOROMETHANE	5	ש
74-83-9BROMOMETHANE	5	<u></u> ט
75-01-4VINYL CHLORIDE	5	Ū
75-00-3CHLOROETHANE	5	וט
75-09-2METHYLENE CHLORIDE	5	וט
67-64-1ACETONE	5	U
75-35-41 1-DICHLOROETHENE	5	ប
75-34-31 1-DICHLOROETHANE	5	וט
67-66-3CHLOROFORM	5	υl
107-06-21 2-DICHLOROETHANE	5	וט
78-93-32-BUTANONE	5	ן ט
71-55-61 1 1-TRICHLOROETHANE	5	ן ט
56-23-5CARBON TETRACHLORIDE	5	ע
75-27-4BROMODICHLOROMETHANE	5	U
78-87-51 2-DICHLOROPROPANE	5	ע
79-01-6TRICHLOROETHENE	5	ן ט
124-48-1DIBROMOCHLOROMETHANE	5	וט
79-00-51 1 2-TRICHLOROETHANE	5	. U
71-43-2BENZENE	5	וט
75-25-2BROMOFORM	5	U
108-10-14-METHYL-2-PENTANONE	5	U
591-78-62-HEXANONE	5	U
127-18-4TETRACHLOROETHENE	5	U
108-88-3TOLUENE	5	U
79-34-51 1 2 2-TETRACHLOROETHANE	5	U
108-90-7CHLOROBENZENE	6	
100-41-4ETHYL BENZENE	5	Ū
100-42-5STYRENE	5	ן ט
156-59-2cis-1 2-DICHLOROETHENE	5	U
156-60-5trans-1 2-DICHLOROETHENE	5	ע
13-302-07m,p-XYLENES	5	U
95-47-6O-XYLENE	5	Ū
106-93-41 2-DIBROMOETHANE	5	U
630-20-61 1 1 2-TETRACHLOROETHANE	5	ע

10PZ101 Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5286.D

Level: (low/med) Date Received: 06/03/98 Date Analyzed: 06/15/98

Column: (pack/cap) CAP Dilution Factor: 1.0

LOW

% Moisture: not dec.

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

96-18-4	555555555555555555555555555555555555555	מממממממממממממממממממממממ
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1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ab Name: SWL-TULSA Contract: FORT HOOD O

CONCENTRATION UNITS:

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Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P16422.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. 0 dec. Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

anup. (1/N) N pn. /.1 Dilución luccol. 1.6

(ug/L or ug/Kg) UG/L 0 CAS NO. COMPOUND 10 108-95-2----Phenol 10 U 111-44-4-----bis(2-Chloroethyl)ether 10 U 95-57-8----2-Chlorophenol 10 U 541-73-1----1,3-Dichlorobenzene U 106-46-7----1,4-Dichlorobenzene 10 U 100-51-6----Benzyl alcohol 10 10 U 95-50-1----1,2-Dichlorobenzene 10 U 95-48-7----2-Methylphenol 10 U 108-60-1-----bis(2-Chloroisopropyl)ether 10 U 106-44-5----4-Methylphenol 10 U 621-64-7----N-Nitroso-di-n-propylamine 10 U 67-72-1-----Hexachloroethane 10 U 98-95-3----Nitrobenzene U 10 78-59-1-----Isophorone U 10 88-75-5----2-Nitrophenol 10 U 105-67-9----2,4-Dimethylphenol 5 J 65-85-0-----Benzoic Acid 10 111-91-1-----bis(2-Chloroethoxy)methane U 10 U 120-83-2----2,4-Dichlorophenol U 120-82-1----1,2,4-Trichlorobenzene 10 91-20-3----Naphthalene 10 U 10 U 106-47-8----4-Chloroaniline 10 U 87-68-3-----Hexachlorobutadiene U 59-50-7----4-Chloro-3-methylphenol 10 U 91-57-6----2-Methylnaphthalene 10 10 U 77-47-4-----Hexachlorocyclopentadiene 10 U 88-06-2----2,4,6-Trichlorophenol 50 U 95-95-4----2,4,5-Trichlorophenol 10 U 91-58-7----2-Chloronaphthalene 50 U 88-74-4----2-Nitroaniline U 131-11-3-----Dimethylphthalate 10 U 10 208-96-8-----Acenaphthylene 10 U 606-20-2----2,6-Dinitrotoluene

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34224

Matrix: (soil/water) WATER Lab Sample ID: 34224.11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P16422.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. 0 dec. Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

CAS NO.

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

50 U 99-09-2----3-Nitroaniline 10 U 83-32-9----Acenaphthene U 10 121-14-2----2,4-Dinitrotoluene 50 U 51-28-5-----2,4-Dinitrophenol 50 U 100-02-7----4-Nitrophenol 10 U 132-64-9-----Dibenzofuran U 10 84-66-2-----Diethylphthalate U 10 7005-72-3----4-Chlorophenyl-phenylether U 10 86-73-7----Fluorene U 100-01-6----4-Nitroaniline 50 50 U 534-52-1----4,6-Dinitro-2-methylphenol U 10 86-30-6----N-Nitrosodiphenylamine (1) U 10 101-55-3-----4-Bromophenylphenylether U 10 118-74-1-----Hexachlorobenzene 50 U 87-86-5----Pentachlorophenol U 10 85-01-8-----Phenanthrene U 10 120-12-7-----Anthracene J 84-74-2----Di-n-butylphthalate 1 U 10 206-44-0----Fluoranthene U 10 129-00-0-----Pyrene U 10 85-68-7----Butylbenzylphthalate 20 U 91-94-1----3,3'-Dichlorobenzidine U 56-55-3----Benzo(a)anthracene 10 U 10 218-01-9-----Chrysene J 117-81-7-----bis(2-Ethylhexyl)phthalate 2 U 117-84-0----Di-n-octylphthalate 10 U 205-99-2----Benzo(b)fluoranthene 10 U 10 207-08-9----Benzo(k)fluoranthene U 50-32-8-----Benzo(a)pyrene 10 U 193-39-5----Indeno(1,2,3-cd)pyrene 10 10 U 53-70-3-----Dibenz(a,h)anthracene_ 191-24-2----Benzo(g,h,i)perylene__ 10 U 10 U 110-86-1-----Pyridine

10PZ101

_ab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.11

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: P16422.D

Level: (low/med) LOW Date Received: 06/03/98

% Moisture: not dec. 0

dec.

Date Extracted:06/04/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene

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CLIENT	SAMPLE	11

			INOXGANI	C ANALISES I	JAIA BIIE	1 1 1		
							10PZ101	
Lab	Name:	SOUTHWEST_	LAB_OF_OK	Contrac	ct:SAIC_			
Lab	Code:	SWOK	Case No.:	34224 SAS	S No.:	S	DG No.: 3	34224_

Lab Code: SW Lab Sample ID: 34224.11 Date Received: 06/03/98

Concentration Units (ug/L or mg/kg dry weight): UG/L_

1					
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic_	2.9	ਹ		P_ P_
7440-39-3	Barium	148	_		P_
7440-43-9	Cadmium_	0.30	ੋਂ		P_
7440-47-3	Chromium_	5.7	В		P_
7439-92-1	Lead	1.5	U		P_
7439-97-6	Mercury_	0.10	U	N	ΑV
7782-49-2	Selenium_	2.2	U	WN	F_
7440-22-4	Silver	1.4	U		P_
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Color Before Color After:	Clarity Before: Clarity After:	CLEAR_ CLEAR_	Texture: Artifacts:
Comments:	 ·		
	FORM I - IN		

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

10PZ102

Tab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5257.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. Date Analyzed: 06/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

		
74-87-3CHLOROMETHANE		5 t
74-83-9BROMOMETHANE		5 0
75-01-4VINYL CHLORIDE	·	5
75-00-3CHLOROETHANE		5 0
75-09-2METHYLENE CHLORIDE		5 7
67-64-1ACETONE		5 0
75-35-41 1-DICHLOROETHENE		5 0
75-34-31 1-DICHLOROETHANE		5 7
67-66-3CHLOROFORM		5 0
107-06-21 2-DICHLOROETHANE		5 7
78-93-32-BUTANONE		5 0
71-55-61 1 1-TRICHLOROETHANE		
56-23-5CARBON TETRACHLORIDE		5 0
75-27-4BROMODICHLOROMETHANE		5 U 5 U 5 U
		5 7
78-87-51 2-DICHLOROPROPANE		5 5
79-01-6TRICHLOROETHENE		5 7
124-48-1DIBROMOCHLOROMETHANE		5 t
79-00-51 1 2-TRICHLOROETHANE		5 t
71-43-2BENZENE		5 t
75-25-2BROMOFORM		
108-10-14-METHYL-2-PENTANONE		5 t
591-78-62-HEXANONE		5 [
127-18-4TETRACHLOROETHENE		5 [
108-88-3TOLUENE		5 [
79-34-51 1 2 2-TETRACHLOROETHANE	5	5 [
108-90-7CHLOROBENZENE	, in the second second	5 [
100-41-4ETHYL BENZENE		5 [
100-42-5STYRENE		5 t
156-59-2cis-1 2-DICHLOROETHENE		5 \ T
156-60-5trans-1 2-DICHLOROETHENE		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
13-302-07m,p-XYLENES		5 \ T
95-47-6O-XYLENE		5 t
106-93-41 2-DIBROMOETHANE		5 t
630-20-61 1 1 2-TETRACHLOROETHANE		5 t
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10PZ102

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.06

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: UL5257.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. ____ Date Analyzed: 06/11/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

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96-18-4	ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ ភ	מם מ
120-82-11 2 4-TRICHLOROBENZENE	5	U

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10PZ102

ab Name: SWL-TULSA Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J1516.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. 0 dec. Date Extracted: 06/05/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	Ū
95-57-8	2-Chlorophenol	10	Ū
	1,3-Dichlorobenzene	10	Ū
	1,4-Dichlorobenzene	10	Ū
	Benzyl alcohol	10	Ū
	1,2-Dichlorobenzene	10	Ū
95-48-7	2-Methylphenol	10	Ū
108-60-1	bis(2-Chloroisopropyl)ether_	10	Ū
106-44-5	4-Methylphenol	10	Ū
621-64-7	N-Nitroso-di-n-propylamine	10	Ū
67-72-1	Hexachloroethane	10	บ
98-95-3	Nitrobenzene	10	Ū
78-59-1	Isophorone	10	Ū
88-75-5	2-Nitrophenol	10	บ
105-67-9	2,4-Dimethylphenol	10	ט י
65-85-0	Benzoic Acid	50	ט
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	ט
120-82-1	1,2,4-Trichlorobenzene	- 10	ט
91-20-3	Naphthalene	10	ט
106-47-8	4-Chloroaniline	10	ט
87-68-3	Hexachlorobutadiene	10	ט
59-50-7	4-Chloro-3-methylphenol	10	ט
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	ט
88-06-2	2,4,6-Trichlorophenol	10	ט
95-95-4	2,4,5-Trichlorophenol	50	ט
91-58-7	2-Chloronaphthalene	10	υ
88-74-4	2-Nitroaniline	50	ט
131-11-3	Dimethylphthalate	10	ט ו
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10PZ102

ab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 34250

Matrix: (soil/water) WATER Lab Sample ID: 34250.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J1516.D

Level: (low/med) LOW Date Received: 06/04/98

% Moisture: not dec. 0 dec. Date Extracted:06/05/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

99-09-2----3-Nitroaniline 50 U 83-32-9-----Acenaphthene 10 U 121-14-2----2,4-Dinitrotoluene 10 U 51-28-5----2,4-Dinitrophenol 50 U 100-02-7----4-Nitrophenol 50 U 132-64-9-----Dibenzofuran 10 U 84-66-2----Diethylphthalate 10 U 7005-72-3----4-Chlorophenyl-phenylether 10 U 86-73-7-----Fluorene 10 U 100-01-6----4-Nitroaniline 50 U 534-52-1----4,6-Dinitro-2-methylphenol 50 U 86-30-6----N-Nitrosodiphenylamine_(1) 10 U 101-55-3----4-Bromophenylphenylether 10 U 118-74-1----Hexachlorobenzene 10 U 87-86-5----Pentachlorophenol 50 U 85-01-8-----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 84-74-2----Di-n-butylphthalate 10 U 206-44-0----Fluoranthene 10 U 129-00-0-----Pyrene 10 U 85-68-7-----Butylbenzylphthalate 10 U 91-94-1----3,37-Dichlorobenzidine 20 U 56-55-3----Benzo(a)anthracene 10 U 218-01-9-----Chrysene 10 U 117-81-7-----bis(2-Ethylhexyl)phthalate 10 U 117-84-0-----Di-n-octylphthalate U 10 205-99-2----Benzo(b)fluoranthene 10 U 207-08-9----Benzo(k)fluoranthene U 10 50-32-8-----Benzo(a)pyrene U 10 193-39-5----Indeno(1,2,3-cd)pyrene U 10 53-70-3-----Dibenz(a,h)anthracene U 10 191-24-2----Benzo(g,h,i)perylene___ 10 U 110-86-1-----Pyridine 10 U

10PZ102

ab Name: SWL-TULSA

Contract: FORT HOOD O

_ab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.06

Sample wt/vol:

1000 (g/mL) ML

Lab File ID: J1516.D

Level: (low/med)

LOW

Date Received: 06/04/98

% Moisture: not dec. 0 dec.

Date Extracted:06/05/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.5

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene

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1 INORGANIC ANALYSES DATA SHEET

CLIENT	SAMPLE	II

tala Maria GOURNAROR I			10PZ102
Lab Name: SOUTHWEST_1	LAB_OF OK	Contract:SAIC	į
Lab Code: SWOK	Case No.: 3425	SAS No.:	SDG No.: 34250B
<pre>Matrix (soil/water):</pre>	WATER	Lab :	Sample ID: 34250.06
Level (low/med):	LOW	Date	Received: 06/04/98
🕏 Solids:	0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L_

. ———					,
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic	2.9	ਹ		P
7440-39-3	Barium	76.9	٦		\bar{P}^-
7440-43-9	Cadmium	0.30	Ū	N	P
7440-47-3	Chromium	3.2	В	N	P_
7439-92-1	Lead	1.6	В		$_{\rm P}^{-}$
7439-97-6	Mercury	0.10	U	*	ΑV
7782-49-2	Selenium	2.2	U		F
7440-22-4	Silver	1.4	U		P_
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10SB121

ab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.11

Sample wt/vol: 5.0 (q/mL) G Lab File ID: N32792.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 12 Date Analyzed: 11/03/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

6 74-83-9-----BROMOMETHANE 6 Ũ 75-01-4-----VINYL CHLORIDE 6 U 75-00-3-----CHLOROETHANE 6 U 75-09-2-----METHYLENE CHLORIDE 6 U 67-64-1-----ACETONE 6 U 75-35-4-----1 1-DICHLOROETHENE U 6 75-34-3-----1 1-DICHLOROETHANE 6 U 67-66-3------CHLOROFORM 6 U 107-06-2----1 2-DICHLOROETHANE U 78-93-3----2-BUTANONE U 6 71-55-6-----1 1 1-TRICHLOROETHANE U 6 56-23-5-----CARBON TETRACHLORIDE 6 U 75-27-4-----BROMODICHLOROMETHANE U 6 78-87-5-----1 2-DICHLOROPROPANE U 6 79-01-6----TRICHLOROETHENE 6 U 124-48-1-----DIBROMOCHLOROMETHANE U 6 79-00-5----- 1 2-TRICHLOROETHANE U 6 71-43-2----BENZENE 6 U 75-25-2-----BROMOFORM 6 U 108-10-1-----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE 6 U 127-18-4----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 6 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE 6 U 108-90-7-----CHLOROBENZENE 6 U 100-41-4----ETHYL BENZENE 6 U 100-42-5-----STYRENE U 6 156-59-2----cis-1 2-DICHLOROETHENE 6 U 156-60-5-----trans-1 2-DICHLOROETHENE 6 U 13-302-07----m,p-XYLENES 6 U 95-47-6----O-XYLENE 6 U 106-93-4-----1 2-DIBROMOETHANE 6 U 630-20-6-----1 1 1 2-TETRACHLOROETHANE U

10SB121

Sab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.11

Sample wt/vol: 5.0 (g/mL) GLab File ID: N32792.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 12 Date Analyzed: 11/03/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

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96-18-41 2 3-TRICHLOROPROPANE	6	l ul
75-71-8DICHLORODIFLUOROMETHANE	6	ן ט
75-69-4TRICHLOROFLUOROMETHANE	6	ال
74-95-3DIBROMOMETHANE	6	Ü
96-12-81 2-DIBROMO-3-CHLOROPROPANE	6	Ü
108-86-1BROMOBENZENE	6	اق
104-51-8n-BUTYLBENZENE	6	اق
98-06-6tert-BUTYLBENZENE	6	اق
135-98-8sec-BUTYLBENZENE	6	ם
95-49-82-CHLOROTOLUENE	6	l d
106-43-44-CHLOROTOLUENE		Ü
	6	ט
	6	l d
541-73-11 3-DICHLOROBENZENE	6	ט
106-46-71 4-DICHLOROBENZENE	6	
142-28-91 3-DICHLOROPROPANE	6	שׁ
594-20-72 2-DICHLOROPROPANE	6	U
563-58-61 1-DICHLOROPROPENE	6	ש
87-68-3HEXACHLOROBUTADIENE	6	ע
98-82-8ISOPROPYLBENZENE	6	ט
99-87-6p-ISOPROPYLTOLUENE	6	ט
91-20-3NAPHTHALENE	[6	
103-65-1n-PROPYLBENZENE	6	
87-61-61 2 3-TRICHLOROBENZENE	6	
120-82-11 2 4-TRICHLOROBENZENE	6	1
95-63-61 2 4-TRIMETHYLBENZENE	6	
108-67-81 3 5-TRIMETHYLBENZENE	6	- 1
74-97-5BROMOCHLOROMETHANE	1 6	ן ט
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB121

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.11

Sample wt/vol: Lab File ID: 31.1 (g/mL) G P17881.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 12 dec. Date Extracted: 11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 8.4

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2----Phenol 360 U 111-44-4----bis(2-Chloroethyl)ether 360 U U 360 95-57-8----2-Chlorophenol U 541-73-1----1,3-Dichlorobenzene 360 U 106-46-7----1,4-Dichlorobenzene 360 360 U 100-51-6-----Benzyl alcohol U 360 95-50-1----1, 2-Dichlorobenzene U 360 95-48-7----2-Methylphenol U 360 108-60-1-----bis(2-Chloroisopropyl)ether U 360 106-44-5----4-Methylphenol U 621-64-7----N-Nitroso-di-n-propylamine 360 67-72-1-----Hexachloroethane U 360 98-95-3----Nitrobenzene 360 U U 78-59-1-----Isophorone 360 U 88-75-5----2-Nitrophenol 360 105-67-9----2,4-Dimethylphenol U 360 U 1800 65-85-0----Benzoic Acid 360 U 111-91-1----bis(2-Chloroethoxy)methane U 120-83-2----2,4-Dichlorophenol 360 U 120-82-1----1, 2, 4-Trichlorobenzene 360 U 91-20-3----Naphthalene 360 U 106-47-8-----4-Chloroaniline 360 U 360 87-68-3-----Hexachlorobutadiene 360 U 59-50-7----4-Chloro-3-methylphenol 360 U 91-57-6----2-Methylnaphthalene 77-47-4-----Hexachlorocyclopentadiene 360 U 88-06-2----2,4,6-Trichlorophenol U 360 U 95-95-4----2,4,5-Trichlorophenol 1800 U 91-58-7----2-Chloronaphthalene 360 1800 U 88-74-4----2-Nitroaniline 131-11-3-----Dimethylphthalate 360 U 360 U 208-96-8-----Acenaphthylene 360 U 606-20-2----2,6-Dinitrotoluene

Q

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB121

Lab Name: SWL-TULSA Contract: FORT HOOD R

Case No.: SAIC SAS No.: Lab Code: SWOK

12

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.11

31.1 (g/mL) G Sample wt/vol:

Lab File ID: P17881.D

LOW Level: (low/med)

Date Received: 10/31/98

% Moisture: not dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup:

(Y/N) N

pH: 8.4

dec.

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND

1800 U 99-09-2----3-Nitroaniline 360 U 83-32-9-----Acenaphthene 360 U 121-14-2----2, 4-Dinitrotoluene 1800 U 51-28-5----2,4-Dinitrophenol U 1800 100-02-7-----4-Nitrophenol U 132-64-9-----Dibenzofuran 360 360 U 84-66-2----Diethylphthalate U 7005-72-3----4-Chlorophenyl-phenylether 360 86-73-7----Fluorene 360 U 100-01-6-----4-Nitroaniline 1800 U 1800 U 534-52-1----4,6-Dinitro-2-methylphenol 86-30-6----N-Nitrosodiphenylamine_(1)_ 360 U 101-55-3----4-Bromophenylphenylether 360 U U 118-74-1----Hexachlorobenzene 360 1800 U 87-86-5----Pentachlorophenol U 85-01-8-----Phenanthrene 360 360 U 120-12-7-----Anthracene 360 U 84-74-2----Di-n-butylphthalate 360 U 206-44-0----Fluoranthene 360 U 129-00-0----Pyrene 85-68-7----Butylbenzylphthalate 360 U 720 U 91-94-1----3,3'-Dichlorobenzidine U 360 56-55-3----Benzo(a)anthracene U 360 218-01-9-----Chrysene 360 U 117-81-7-----bis(2-Ethylhexyl)phthalate U 117-84-0-----Di-n-octylphthalate 360 360 U 205-99-2----Benzo(b)fluoranthene 360 U 207-08-9----Benzo(k)fluoranthene U 360 50-32-8-----Benzo(a)pyrene U 360 193-39-5----Indeno(1,2,3-cd)pyrene_ U 360 53-70-3-----Dibenz(a,h)anthracene__ U 191-24-2----Benzo(g,h,i)perylene 360 U 360 110-86-1-----Pyridine

10SB121

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.11

Sample wt/vol:

31.1 (g/mL) G

Lab File ID: P17881.D

Date Received: 10/31/98

% Moisture: not dec. 12 dec.

Date Extracted: 11/02/98

Level:

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume:

(low/med) LOW

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.4

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

360

U

1 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

Tale Maria COMMITTEE LADG	NR 011			10SB121
Lab Name: SOUTHWEST_LABS Clab Code: SWOK Cas Matrix (soil/water): SOIL Level (low/med): LOW % Solids:87.5		Contract:SA. 197 SAS No.	Lab Sampl	SDG No.: 36197A Le ID: 36197.11 eived: 10/31/98
Concentration	Units (ug	/L or mg/kg dry	y weight):	: MG/KG
CAS No.	Analyte	Concentration	C Q	M
7440-38-2 7440-39-3	Barium	5.4 30.2	3,25,25	P P
	Cadmium_ Chromium_ Lead_	0.10 6.8 7.9		P P P
7439-97-6 7732-49-2 7440-22-4	Selenium_ Silver_	0.05 0.24 0.14	U WN	A\bar{V}
Color Before: CHRY Color After: CHLOW	Clari Clari	ty Before: CLE	AR_	Texture: MEDIUM Artifacts:
Comments:		•		
		OPM T - TN		

10SB122

Lab Namé:SWL-TULSAContract:FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32777.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	ឆ្នាំ	ממקממממממממממממממממממממ
127-18-4TETRACHLOROETHENE 108-88-3TOLUENE 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 100-41-4ETHYL BENZENE	5 5 5 5 5	ם ח ח

Lab Name: SWL-TULSA Contract: FTHOOD RFI 10SB122

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.14

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: N32777.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9

Date Analyzed: 11/02/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

96-12-8 108-86-1 104-51-8 98-06-6 135-98-8 95-49-8 106-43-4 95-50-1 541-73-1 106-46-7 142-28-9 594-20-7 563-58-6 87-68-3 98-82-8	1 3-DICHLOROBENZENE1 4-DICHLOROBENZENE1 3-DICHLOROPROPANE2 2-DICHLOROPROPANE1 1-DICHLOROPROPENEHEXACHLOROBUTADIENEISOPROPYLBENZENEp-ISOPROPYLTOLUENE	555555555555555555555555555555555555555	מטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט
87-68-3 98-82-8 99-87-6	HEXACHLOROBUTADIENEISOPROPYLBENZENEP-ISOPROPYLTOLUENENAPHTHALENEN-PROPYLBENZENE1 2 3-TRICHLOROBENZENE1 2 4-TRICHLOROBENZENE1 2 4-TRIMETHYLBENZENE1 3 5-TRIMETHYLBENZENE	55555555555	บ บ

10SB122RE

ab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32798.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9 Date Analyzed: 11/03/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		(ug/II OI			
74-87-3	CHLOROMETHANE			5	U
	BROMOMETHANE			5	υ
	VINYL CHLORIDE			5	Ŭ
	CHLOROETHANE			5	Ŭ
	METHYLENE CHLORIDE			5	บั
67-64-1				5	บั
	1 1-DICHLOROETHENE			5	Ŭ
	1 1-DICHLOROETHANE			5	Ŭ
	CHLOROFORM			5	Ŭ
	1 2-DICHLOROETHANE			5	บั
78-93-3	2-BUTANONE			5	Ū
	1 1 1-TRICHLOROETHANE			5	Ŭ
56-23-5	CARBON TETRACHLORIDE			5	Ŭ
75-27-4	BROMODICHLOROMETHANE			5	Ū
78-87-5	1 2-DICHLOROPROPANE			5	Ū
79-01-6	TRICHLOROETHENE			5	บั
124-48-1	DIBROMOCHLOROMETHANE			5	Ū
79-00-5	1 1 2-TRICHLOROETHANE			5	U
71-43-2				5	U
75-25-2	BROMOFORM			5	Ü
108-10-1	4-METHYL-2-PENTANONE	······································		5	υ
	2-HEXANONE			5	U
127-18-4	TETRACHLOROETHENE			5	U
108-88-3	TOLUENE			5	U
79-34-5	1 1 2 2-TETRACHLOROETH	ANE	1.0	5	Ţ
	CHLOROBENZENE			5	Ţ
100-41-4	ETHYL BENZENE			5	τ
	STYRENE			5	τ
156-59-2	cis-1 2-DICHLOROETHENE			5	τ
	trans-1 2-DICHLOROETHE			5	Ū
	m,p-XYLENES			5	Ü
95-47-6	O-XYLENE			5	ť
	1 2-DIBROMOETHANE			5	τ
630-20-6	1 1 1 2-TETRACHLOROETH	ANE		5	Ū

10SB122RE

Lab Name: SWL-TULSA C

Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.:

5.0 (g/mL) G

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.14RA

Sample wt/vol:

Lab File ID: N32798.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 9

Date Analyzed: 11/03/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

96-18-4	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	מממממממממממממממממממ
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1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB122

Q

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14

Sample wt/vol: 30.4 (g/mL) G Lab File ID: P17882.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

108-95-2----Phenol 360 U 111-44-4----bis(2-Chloroethyl)ether 360 U 95-57-8----2-Chlorophenol 360 U 541-73-1----1,3-Dichlorobenzene U 360 106-46-7----1,4-Dichlorobenzene U 360 100-51-6----Benzyl alcohol U 360 95-50-1----1,2-Dichlorobenzene U 360 95-48-7----2-Methylphenol U 360 U 108-60-1-----bis(2-Chloroisopropyl)ether 360 106-44-5-----4-Methylphenol 360 U 621-64-7----N-Nitroso-di-n-propylamine 360 U 67-72-1----Hexachloroethane 360 U U 98-95-3-----Nitrobenzene 360 78-59-1-----Isophorone U 360 88-75-5----2-Nitrophenol 360 U U 105-67-9----2, 4-Dimethylphenol 360 65-85-0-----Benzoic Acid U 1700 U 111-91-1----bis(2-Chloroethoxy)methane 360 U 120-83-2----2,4-Dichlorophenol 360 U 120-82-1----1,2,4-Trichlorobenzene 360 91-20-3----Naphthalene 360 U 106-47-8-----4-Chloroaniline 360 U U 87-68-3----Hexachlorobutadiene 360 59-50-7----4-Chloro-3-methylphenol U 360 U 91-57-6----2-Methylnaphthalene 360 U 360 77-47-4-----Hexachlorocyclopentadiene U 88-06-2----2,4,6-Trichlorophenol 360 1700 U 95-95-4----2,4,5-Trichlorophenol U 91-58-7----2-Chloronaphthalene 360 U 88-74-4----2-Nitroaniline 1700 U 131-11-3----Dimethylphthalate 360 360 U 208-96-8-----Acenaphthylene U 606-20-2----2,6-Dinitrotoluene 360

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB122

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14

Sample wt/vol: 30.4 (g/mL) G Lab File ID: P17882.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec.
9 dec.
Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1700 1700			· · · · · · · · · · · · · · · · · · ·	
121-14-22, 4-Dinitrotoluene 360 361-28-52, 4-Dinitrophenol 1700 1700 1700 1700 1700 1700 1700 182-64-9	09-2	3-Nitroaniline	1700	U
1700	32-9	Acenaphthene	360	U
1700 1700			360	Ţ
1700			1700	Ţ
332-64-9	0-02-7	4-Nitrophenol	1700	1
360 367-72-3			360	Ţ
360 360	-66-2	Diethylphthalate	360	1
360 360	5-72-3	4-Chlorophenyl-phenylether	360	1
1700 36-30-6			360	1
36-30-6N-Nitrosodiphenylamine (1) 360 101-55-34-Bromophenylphenylether 360 118-74-1Hexachlorobenzene 360 37-86-5Pentachlorophenol 1700 85-01-8Phenanthrene 360 120-12-7Anthracene 360 84-74-2Di-n-butylphthalate 360 206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7)-01-6	4-Nitroaniline	1700	1
360 318-74-1	1-52-1	4,6-Dinitro-2-methylphenol	1700	•
101-55-34-Bromophenylphenylether			360	
118-74-1Hexachlorobenzene 360 87-86-5Pentachlorophenol 1700 85-01-8Phenanthrene 360 120-12-7Anthracene 360 84-74-2Di-n-butylphthalate 360 206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7Butylbenzylphthalate 360 91-94-13,3'-Dichlorobenzidine 720 56-55-3Benzo(a)anthracene 360 218-01-9	1-55-3	4-Bromophenylphenylether	360	
35-01-8Phenanthrene 360 120-12-7Anthracene 360 84-74-2Di-n-butylphthalate 360 206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7Butylbenzylphthalate 360 91-94-13,3'-Dichlorobenzidine 720 56-55-3Benzo(a)anthracene 360 218-01-9Chrysene 360 117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0	3-74-1	Hexachlorobenzene	360	
35-01-8Phenanthrene 360 120-12-7Anthracene 360 84-74-2Di-n-butylphthalate 360 206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7Butylbenzylphthalate 360 91-94-13,3'-Dichlorobenzidine 720 56-55-3Benzo(a)anthracene 360 218-01-9Chrysene 360 117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0	-86-5	Pentachlorophenol	1700	
120-12-7Anthracene 360 84-74-2Di-n-butylphthalate 360 206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7			360	
206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7Butylbenzylphthalate 360 91-94-13,3'-Dichlorobenzidine 720 56-55-3			360	
206-44-0Fluoranthene 360 129-00-0Pyrene 360 85-68-7Butylbenzylphthalate 360 91-94-13,3'-Dichlorobenzidine 720 56-55-3	-74-2	Di-n-butylphthalate	360	
129-00-0			360	
85-68-7			360	
91-94-13,3'-Dichlorobenzidine 720 56-55-3Benzo(a)anthracene 360 218-01-9Chrysene 360 117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0Benzo(b)fluoranthene 360 205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
56-55-3Benzo(a) anthracene 360 218-01-9Chrysene 360 117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0Di-n-octylphthalate 360 205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3			720	
218-01-9Chrysene 360 117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0Di-n-octylphthalate 360 205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
117-81-7bis(2-Ethylhexyl)phthalate 360 117-84-0Di-n-octylphthalate 360 205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
117-84-0Di-n-octylphthalate 360 205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
205-99-2Benzo(b)fluoranthene 360 207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360	7-84-0	Di-n-octvlphthalate	360	
207-08-9Benzo(k)fluoranthene 360 50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
50-32-8Benzo(a)pyrene 360 193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360			360	
193-39-5Indeno(1,2,3-cd)pyrene 360 53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360	-32-8	Benzo(a)pyrene	360	
53-70-3Dibenz(a,h)anthracene 360 191-24-2Benzo(g,h,i)perylene 360	3-39-5	Indeno(1,2,3-cd)pyrene	360	
191-24-2Benzo(g,h,i)perylene360	-70-3	Dibenz(a,h)anthracene	360	
110-86-1Pyridine	1-24-2	Benzo(g,h,i)pervlene	360	
	0-86-1	Pyridine	360	
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1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

10SB122

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.14

Sample wt/vol:

30.4 (q/mL) G

Lab File ID: P17882.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec.

9 dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

U 360 95-94-3----1, 2, 4, 5-Tetrachlorobenzene

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB122RE

Q

360

360

360

360

360

360

1700

1700

U

U

U

U

U

U

U

U

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14RA

Sample wt/vol: 30.4 (g/mL) G Lab File ID: P17901.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

U 108-95-2----Phenol 360 111-44-4----bis(2-Chloroethyl)ether_ 360 U U 360 95-57-8----2-Chlorophenol U 360 541-73-1----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene U 360 100-51-6----Benzyl alcohol U 360 U 95-50-1----1,2-Dichlorobenzene 360 U 95-48-7----2-Methylphenol 360 U 360 108-60-1-----bis(2-Chloroisopropyl)ether 360 U 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 360 U 360 U 67-72-1-----Hexachloroethane U 360 98-95-3-----Nitrobenzene 360 U 78-59-1-----Isophorone 360 U 88-75-5----2-Nitrophenol 360 U 105-67-9----2,4-Dimethylphenol 65-85-0----Benzoic Acid U 1700 U 360 111-91-1----bis(2-Chloroethoxy)methane 360 U 120-83-2----2,4-Dichlorophenol U 120-82-1----1,2,4-Trichlorobenzene_ 360 U 360 91-20-3----Naphthalene U 360 106-47-8----4-Chloroaniline 360 U 87-68-3-----Hexachlorobutadiene U 360 59-50-7----4-Chloro-3-methylphenol U 360 91-57-6----2-Methylnaphthalene

77-47-4-----Hexachlorocyclopentadiene

88-06-2----2,4,6-Trichlorophenol

95-95-4----2,4,5-Trichlorophenol

91-58-7----2-Chloronaphthalene

131-11-3-----Dimethylphthalate

606-20-2----2,6-Dinitrotoluene

88-74-4----2-Nitroaniline

208-96-8-----Acenaphthylene

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB122RE

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.14RA

Sample wt/vol: 30.4 (g/mL) G Lab File ID: P17901.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 9 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		I
99-09-23-Nitroaniline	1700	U
83-32-9Acenaphthene	360	U
121-14-22,4-Dinitrotoluene	360	ַ
51-28-52,4-Dinitrophenol	1700	ប
100-02-74-Nitrophenol	1700	U
132-64-9Dibenzofuran	360	U
84-66-2Diethylphthalate	360	U
7005-72-34-Chlorophenyl-phenylether	360	Ū
86-73-7Fluorene	360	U
100-01-64-Nitroaniline	1700	U
534-52-14,6-Dinitro-2-methylphenol	1700	U
86-30-6N-Nitrosodiphenylamine (1)	⁻ 360	U
101-55-34-Bromophenylphenylether	360	U
118-74-1Hexachlorobenzene	360	U
87-86-5Pentachlorophenol	1700	U
85-01-8Phenanthrene	360	U
120-12-7Anthracene	360	U
84-74-2Di-n-butylphthalate	360	Ū
206-44-0Fluoranthene	360	Ū
129-00-0Pyrene	360	ָ <u></u>
85-68-7Butylbenzylphthalate	360	Ū
91-94-13,3'-Dichlorobenzidine	720	Ū
56-55-3Benzo(a)anthracene	360	Ū
218-01-9Chrysene	360	Ū
117-81-7bis(2-Ethylhexyl)phthalate	360	Ū
117-84-0Di-n-octylphthalate	360	Ū
205-99-2Benzo(b)fluoranthene	360	ט ו
207-08-9Benzo(k)fluoranthene	360	Ū
50-32-8Benzo(a)pyrene	360	ט
193-39-5Indeno(1,2,3-cd)pyrene	360	โ ซื
53-70-3Dibenz(a,h)anthracene	360	Ü
191-24-2Benzo(g,h,i)perylene	- 360	
110-86-1Pyridine	360	l ü
110-60-1	-	"
		1

10SB122RE

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.14RA

Sample wt/vol:

30.4 (g/mL) G

Lab File ID: P17901.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 9 dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/09/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

360

U

1 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

Talanta COMMUNICATION LADO	0E 0Z	Gto	T.G	10SB122
Lab Name: SOUTHWEST_LABS Lab Code: SWOK Ca Matrix (soil/water): SOII	_OF_OK ase No.: 36	Contract:SAL 197 SAS No.:	:	SDG No.: 36197A
Matrix (soil/water): SOII	<u>L_</u>		Lab Sample	ID: 36197.14
Level (low/med:): LOW			Date Recei	ved: 10/31/98
% Solids: _91	. 3			No. 1
Concentration	n Units (ug	/L or mg/kg dry	y weight):	MG/KG
			I see I	
CAS No.	Analyte	Concentration	C Q M	
	maryce	Concentration		And the second s
	Arsenic_	4.8		
7440-39-3		20.2	in light we will always I	
741 0 - 43 - 9		0.10	B E	
744 0 - 47 - 3		4.0	-	
7439-92-1 7439-97-6		2.3	<u>-</u>	
77£2-49-2		1.1	U WN I	
74 <u>£</u> 0-22-4		0.13	U - U	- -
7420 22 1	011461	-	" "	`-
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Color Before: CREY Color After: MILLOW	Clar:	ity Before: <u>CLE</u> ity After: <u>CLE</u>		Texture: MEDIUM Artifacts:
	_		····-	
Comments:				
		FORM I - IN		

10SB123

Lab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.15

Sample wt/vol: 5.0 (g/mL) GLab File ID: N32778.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. (ug/L or ug/Kg) UG/KG Q COMPOUND

	CHLOROMETHANE	6	τ
	BROMOMETHANE	[] 6]	Ţ
75-01-4	VINYL CHLORIDE	_ 6	τ
	CHLOROETHANE	6	Ţ
75-09-2	METHYLENE CHLORIDE	3	JE
7-64-1	ACETONE	6	Ţ
5-35-4	1 1-DICHLOROETHENE	6	Ţ
5-34-3	1 1-DICHLOROETHANE	6	τ
7-66-3		6	Ţ
	1 2-DICHLOROETHANE	6	1
'8-93-3		6	1
'1-55-6	1 1 1-TRICHLOROETHANE	- 6	1
	CARBON TETRACHLORIDE	- 6	1
	BROMODICHLOROMETHANE	⁻ 6	•
	1 2-DICHLOROPROPANE	⁻ 6	•
	TRICHLOROETHENE	- 6	
	DIBROMOCHLOROMETHANE	- 6	
9-00-5	1 1 2-TRICHLOROETHANE	⁻ l 6 l	
'1-43-2	BENZENE	-l 6 l	
'5 - 25-2 -		- 6	
.08-10-1	4-METHYL-2-PENTANONE	-l 6 l	
91-78-6	2-HEXANONE	6	
.27-18-4	TETRACHLOROETHENE	-l 6 l	
.08-88-3		6	
79-34-5	1 1 2 2-TETRACHLOROETHANE	- 6	
.08-90-7	CHLOROBENZENE	6	
.00-41-4	ETHYL BENZENE	- 6	
.00-42-5	STYRENE	- 6	
56-59-2	cis-1 2-DICHLOROETHENE	- 6	
	trans-1 2-DICHLOROETHENE	- 6	
	m,p-XYLENES	- 6	
95-47-6	O-XYLENE	- 6	
	1 2-DIBROMOETHANE	- 6	
530-20-6	1 1 1 2-TETRACHLOROETHANE	- 6	

ab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No

SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.15

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32778.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-4	666666666666666666666666666666666666666	ממטמטמטמטמטמטטמט
594-20-72 2-DICHLOROPROPANE 563-58-61 1-DICHLOROPROPENE 87-68-3	6 6 6 6	ט ט ט ט
87-61-6	666666666666666666666666666666666666666	ט ט ט ט

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.15

Sample wt/vol: 31.1 (g/mL) G Lab File ID: P17883.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2----Phenol 370 U 111-44-4----bis(2-Chloroethyl)ether 370 U 95-57-8----2-Chlorophenol 370 U 541-73-1----1,3-Dichlorobenzene 370 U 106-46-7----1,4-Dichlorobenzene 370 U 100-51-6----Benzyl alcohol 370 U 95-50-1----1,2-Dichlorobenzene 370 U 370 U 95-48-7----2-Methylphenol U 108-60-1-----bis(2-Chloroisopropyl)ether 370 370 U 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 370 Ū U 370 67-72-1-----Hexachloroethane U 370 98-95-3----Nitrobenzene 370 U 78-59-1-----Isophorone 370 U 88-75-5----2-Nitrophenol U 370 105-67-9----2,4-Dimethylphenol 65-85-0-----Benzoic Acid U 1800 U 370 111-91-1----bis(2-Chloroethoxy)methane U 370 120-83-2----2,4-Dichlorophenol U 370 120-82-1----1,2,4-Trichlorobenzene_ 370 U 91-20-3----Naphthalene 370 U 106-47-8-----4-Chloroaniline U 370 87-68-3-----Hexachlorobutadiene U 370 59-50-7----4-Chloro-3-methylphenol U 370 91-57-6----2-Methylnaphthalene U 370 77-47-4-----Hexachlorocyclopentadiene U 370 88-06-2----2,4,6-Trichlorophenol U 1800 95-95-4----2,4,5-Trichlorophenol_ U 91-58-7----2-Chloronaphthalene 370 U 88-74-4----2-Nitroaniline 1800 U 131-11-3-----Dimethylphthalate 370 208-96-8-----Acenaphthylene 370 U 606-20-2----2,6-Dinitrotoluene 370 U

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB123

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.15

31.1 (g/mL) G

Lab File ID: P17883.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14

dec.

Date Extracted: 11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

Sample wt/vol:

pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

	(13/2 01 13/		<u>-</u>
99-09-2	3-Nitroaniline	1800	U
	Acenaphthene	370	U
	2,4-Dinitrotoluene	370	U
	2,4-Dinitrophenol	1800	U
	4-Nitrophenol	1800	U
	Dibenzofuran	370	U
	Diethylphthalate	370	ប
7005-72-3	4-Chlorophenyl-phenylether	370	U
	Fluorene	370	U
	4-Nitroaniline	1800	U
	4,6-Dinitro-2-methylphenol	1800	บ
86-30-6	N-Nitrosodiphenylamine (1)	370	Ü
101-55-3	4-Bromophenylphenylether	370	τ
118-74-1	Hexachlorobenzene	370	τ
	Pentachlorophenol	1800	τ
	Phenanthrene	370	Į
	Anthracene	370	τ
	Di-n-butylphthalate	370	Ţ
206-44-0	Fluoranthene	370	τ
	Pyrene	370	Ţ
85-68-7	Butylbenzylphthalate	370	τ
91-94-1	3,3'-Dichlorobenzidine	740	Ţ
56-55-3	Benzo(a)anthracene	370	Ţ
	Chrysene	370	1
	bis(2-Ethylhexyl)phthalate	370	1
117-84-0	Di-n-octylphthalate	370	1
205-99-2	Benzo(b)fluoranthene	370	. 1
207-08-9	Benzo(k)fluoranthene	370	1
50-32-8	Benzo(a)pyrene	370	1
193-39-5	Indeno(1,2,3-cd)pyrene	370	1
53-70-3	Dibenz(a,h)anthracene	370	1
191-24-2	Benzo(g,h,i)perylene	370	
110-86-1	Pyridine	370	ļ ·
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10SB123

Lab Name: SWL-TULSA Contract: FORT HOOD R

SDG No.: 36197

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Lab Sample ID: 36197.15

Sample wt/vol:

31.1 (g/mL) G

Lab File ID: P17883.D

Lab Code: SWOK Case No.: SAIC SAS No.:

Date Received: 10/31/98

% Moisture: not dec.

14 dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

370

U

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB123RE

Q

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.15RA

Sample wt/vol: 31.1 (g/mL) G Lab File ID: P17902.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG

U 108-95-2----Phenol 370 U 111-44-4----bis(2-Chloroethyl)ether 370 U 370 95-57-8----2-Chlorophenol U 541-73-1----1,3-Dichlorobenzene 370 106-46-7-----1,4-Dichlorobenzene U 370 U 100-51-6-----Benzyl alcohol 370 370 U 95-50-1----1,2-Dichlorobenzene 370 U 95-48-7----2-Methylphenol U 108-60-1-----bis(2-Chloroisopropyl)ether 370 U 370 106-44-5----4-Methylphenol U 621-64-7----N-Nitroso-di-n-propylamine 370 U 370 67-72-1-----Hexachloroethane U 370 98-95-3----Nitrobenzene U 370 78-59-1-----Isophorone U 88-75-5----2-Nitrophenol 370 U 105-67-9----2,4-Dimethylphenol 370 U 1800 65-85-0-----Benzoic Acid U 370 111-91-1----bis(2-Chloroethoxy)methane 120-83-2-----2,4-Dichlorophenol_ 120-82-1----1,2,4-Trichlorobenzene_ 370 U 370 U 370 U 91-20-3----Naphthalene U 370 106-47-8-----4-Chloroaniline 370 U 87-68-3----Hexachlorobutadiene U 370 59-50-7----4-Chloro-3-methylphenol U 370 91-57-6----2-Methylnaphthalene U 370 77-47-4-----Hexachlorocyclopentadiene U 370 88-06-2----2,4,6-Trichlorophenol U 1800 95-95-4----2,4,5-Trichlorophenol U 370 91-58-7----2-Chloronaphthalene U 88-74-4----2-Nitroaniline 1800 U 370 131-11-3----Dimethylphthalate 370 U 208-96-8-----Acenaphthylene 370 U 606-20-2----2,6-Dinitrotoluene

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB123RE

SDG No.: 36197

Tab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: 36197.15RA

Sample wt/vol: 31.1 (g/mL) G Lab File ID: P17902.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 14 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1800 U 99-09-2----3-Nitroaniline 370 U 83-32-9----Acenaphthene 370 U 121-14-2----2, 4-Dinitrotoluene 1800 Ū 51-28-5----2,4-Dinitrophenol U 1800 100-02-7----4-Nitrophenol 370 U 132-64-9------Dibenzofuran 370 U 84-66-2----Diethylphthalate 370 U 7005-72-3----4-Chlorophenyl-phenylether 370 U 86-73-7----Fluorene U 1800 100-01-6----4-Nitroaniline U 1800 534-52-1----4,6-Dinitro-2-methylphenol U 86-30-6----N-Nitrosodiphenylamine (1) 370 370 U 101-55-3----4-Bromophenylphenylether 370 U 118-74-1-----Hexachlorobenzene U 1800 87-86-5----Pentachlorophenol 370 U 85-01-8-----Phenanthrene U 370 120-12-7-----Anthracene U 84-74-2----Di-n-butylphthalate 370 U 206-44-0----Fluoranthene___ 370 370 U 129-00-0-----Pyrene U 85-68-7-----Butylbenzylphthalate 370 U 740 91-94-1----3,3'-Dichlorobenzidine_ U 370 56-55-3----Benzo(a)anthracene U 370 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate 370 U 117-84-0-----Di-n-octylphthalate 370 370 U 205-99-2----Benzo(b)fluoranthene U 370 207-08-9----Benzo(k)fluoranthene U 370 50-32-8----Benzo(a)pyrene U 193-39-5----Indeno(1,2,3-cd)pyrene 370 U 370 53-70-3-----Dibenz(a,h)anthracene U 370 191-24-2----Benzo(g,h,i)perylene____ U 370 110-86-1-----Pyridine

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB123RE

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.15RA

Sample wt/vol:

31.1 (g/mL) G

dec.

Lab File ID: P17902.D

Date Received: 10/31/98

% Moisture: not dec. 14

Level: (low/med) LOW

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

370

U

1 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

		ا	INORGANIC A	MALYSES DATA S	HE	E.I.		
Lab Nam	e: SOUT	west labs (OF OK	Contract:SAI	IC.			10SB123
Lab Cod Matrix Level (% Solid	low/medi s:): LOW _85.9)		Da	ite Rece	le I eive	G No.: 36197A D: 36197.15 ed: 10/31/98
	Con	centration		/L or mg/kg dry	_	reight)	: MG	;/KG
•••		CAS No.	Analyte	Concentration		Q	M	
			Arsenic Barium Cadmium	3.8 37.0 0.09	1-1	er et løge	P_ P_ P	
		7410-47-3 7439-92-1	Chromium_ Lead	4.9	-		P_ P	
		743 9-97-6 773 2-49-2 744 0-22-4	Selenium	0.04 1.2 0.14	U	WN	AV F_ P_	
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Color Bet Color Aft	fore: CRYY ter: YHLOW	Clarity Before: CLEAR_	Texture: MEDIUM Artifacts:
Comments	:		
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Lab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32779.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 13 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3CHLOROMETHANE	6	U
74-83-9BROMOMETHANE	6	Ŭ
75-01-4VINYL CHLORIDE	6	บั
75-00-3CHLOROETHANE	6	Ü
75-09-2METHYLENE CHLORIDE	3	JB
67-64-1ACETONE	12	02
75-35-41 1-DICHLOROETHENE	6	Ū
75-34-31 1-DICHLOROETHANE	6	ប័
67-66-3CHLOROFORM	6	บี
107-06-21 2-DICHLOROETHANE	6	Ŭ
78-93-32-BUTANONE	6	บั
71-55-61 1 1-TRICHLOROETHANE	6	บี
56-23-5CARBON TETRACHLORIDE	6	บี
75-27-4BROMODICHLOROMETHANE	6	บี
78-87-51 2-DICHLOROPROPANE	6	บ
79-01-6TRICHLOROETHENE	6	Ŭ
124-48-1DIBROMOCHLOROMETHANE	6	บ
79-00-51 1 2-TRICHLOROETHANE	6	บั
71-43-2BENZENE	6	บ
75-25-2BROMOFORM	6	Ü
108-10-14-METHYL-2-PENTANONE	6	บ
591-78-62-HEXANONE		Ü
127-18-4TETRACHLOROETHENE	6	U U
108-88-3TOLUENE	6	Ü
79-34-51 1 2 2-TETRACHLOROETHANE	. 61	
108-90-7CHLOROBENZENE	6	U
	6	U
100-41-4ETHYL BENZENE	6	U
100-42-5STYRENE	6	U
156-59-2cis-1 2-DICHLOROETHENE	6	U
156-60-5trans-1 2-DICHLOROETHENE	6	U
13-302-07m,p-XYLENES	6	U
95-47-6O-XYLENE	6	Ü
106-93-41 2-DIBROMOETHANE	6	ט
630-20-61 1 1 2-TETRACHLOROETHANE	6	ט

SAS No.:

10SB124

SDG No.: 36197

hab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Sample ID: 36197.16

Matrix: (soil/water) SOIL

Lab Code: SWOK Case No.: SAIC

Sample wt/vol:

5.0 (g/mL) G

Lab File ID: N32779.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 13

Date Analyzed: 11/02/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

tab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.16

Sample wt/vol: 32.8 (g/mL) G Lab File ID: P17884.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 13 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

108-95-2Phenol	350	ט
111-44-4bis(2-Chloroethyl)ether	350	ַ ט
95-57-82-Chlorophenol	350	ט
541-73-11,3-Dichlorobenzene	350	ט
106-46-71, 4-Dichlorobenzene	350	ט
100-51-6Benzyl alcohol	350	ט
95-50-11,2-Dichlorobenzene	350	U
95-48-72-Methylphenol	350	U
108-60-1bis(2-Chloroisopropyl)ether_	350	Ū
106-44-54-Methylphenol	350	Ū
621-64-7N-Nitroso-di-n-propylamine	350	U
67-72-1Hexachloroethane	350	U
98-95-3Nitrobenzene	350	Ū
78-59-1Isophorone	350	Ū
88-75-52-Nitrophenol	350	U
105-67-92,4-Dimethylphenol	350	U
65-85-0Benzoic Acid	1700	Ū
111-91-1bis(2-Chloroethoxy)methane	350	Ū
120-83-22,4-Dichlorophenol	350	U
120-82-11,2,4-Trichlorobenzene	350	Ū
91-20-3Naphthalene	350	Ū
106-47-84-Chloroaniline	350	Ū
87-68-3Hexachlorobutadiene	350	Ū
59-50-74-Chloro-3-methylphenol	350	Ü
91-57-62-Methylnaphthalene	350	Ū
77-47-4Hexachlorocyclopentadiene	350	ับ
88-06-22,4,6-Trichlorophenol	350	Ü
95-95-42,4,5-Trichlorophenol	1700	บ
91-58-72-Chloronaphthalene	350	ΰ
88-74-42-Nitroaniline	1700	ט
131-11-3Dimethylphthalate	350	ט
208-96-8Acenaphthylene	350	Ü
606-20-22,6-Dinitrotoluene	350	τ
2/0 Difficiocoldene	-	
	_ I	

10SB124

Lab Name: SWL-TULSA Contract: FORT HOOD R

Case No.: SAIC

SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.16

Sample wt/vol: 32.8 (g/mL) G Lab File ID: P17884.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 13 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

Lab Code: SWOK

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

99-09-2----3-Nitroaniline 1700 U 83-32-9-----Acenaphthene 350 U 121-14-2----2,4-Dinitrotoluene 350 U 1700 U 51-28-5-----2,4-Dinitrophenol 1700 U 100-02-7-----4-Nitrophenol 350 U 132-64-9-----Dibenzofuran 350 U 84-66-2----Diethylphthalate U 350 7005-72-3----4-Chlorophenyl-phenylether U 350 86-73-7----Fluorene U 1700 100-01-6-----4-Nitroaniline U 1700 534-52-1----4,6-Dinitro-2-methylphenol U 86-30-6----N-Nitrosodiphenylamine (1) 350 350 U 101-55-3----4-Bromophenylphenylether U 350 118-74-1-----Hexachlorobenzene U 1700 87-86-5----Pentachlorophenol U 85-01-8-----Phenanthrene 350 U 350 120-12-7------Anthracene 350 84-74-2----Di-n-butylphthalate U 206-44-0----Fluoranthene 350 U U 350 129-00-0----Pyrene U 350 85-68-7----Butylbenzylphthalate U 91-94-1----3,3'-Dichlorobenzidine 690 U 350 56-55-3-----Benzo(a)anthracene 350 U 218-01-9-----Chrysene U 117-81-7-----bis(2-Ethylhexyl)phthalate 350 U 117-84-0-----Di-n-octylphthalate 350 U 350 205-99-2----Benzo(b)fluoranthene U 350 207-08-9----Benzo(k)fluoranthene 350 U 50-32-8-----Benzo(a)pyrene 350 U 193-39-5----Indeno(1,2,3-cd)pyrene_ 350 U 53-70-3----Dibenz(a,h)anthracene 350 U 191-24-2----Benzo(g,h,i)perylene 350 U 110-86-1------Pyridine

EPA SAMPLE NO.

10SB124

Lab Name: SWL-TULSA

_ab Code: SWOK

Contract: FORT HOOD R

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.16

32.8 (g/mL) G

Case No.: SAIC SAS No.:

Lab File ID: P17884.D

Sample wt/vol:

Date Received: 10/31/98

Level: (low/med) LOW

% Moisture: not dec. 13

dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.2

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

350

U

10SB124RE

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.16RA

Sample wt/vol: 32.8 (g/mL) G Lab File ID: P17903.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 13 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2----Phenol 350 U 111-44-4----bis(2-Chloroethyl)ether 350 U 95-57-8----2-Chlorophenol 350 U 541-73-1-----1,3-Dichlorobenzene 350 U 106-46-7----1,4-Dichlorobenzene 350 U 100-51-6-----Benzyl alcohol 350 U 95-50-1----1,2-Dichlorobenzene 350 U 95-48-7----2-Methylphenol 350 U 108-60-1-----bis(2-Chloroisopropyl)ether U 350 106-44-5----4-Methylphenol 350 U U 621-64-7----N-Nitroso-di-n-propylamine 350 67-72-1-----Hexachloroethane 350 U 98-95-3----Nitrobenzene 350 U 78-59-1-----Isophorone U 350 U 88-75-5----2-Nitrophenol 350 105-67-9----2,4-Dimethylphenol 350 Ū 1700 U 65-85-0----Benzoic Acid U 111-91-1-----bis(2-Chloroethoxy)methane 350 120-83-2----2,4-Dichlorophenol 350 U U 120-82-1----1,2,4-Trichlorobenzene 350 91-20-3----Naphthalene 350 U U 106-47-8----4-Chloroaniline 350 U 87-68-3-----Hexachlorobutadiene 350 U 59-50-7----4-Chloro-3-methylphenol 350 91-57-6----2-Methylnaphthalene 350 U 77-47-4-----Hexachlorocyclopentadiene 350 U U 88-06-2----2,4,6-Trichlorophenol 350 U 95-95-4----2,4,5-Trichlorophenol 1700 U 91-58-7----2-Chloronaphthalene 350 U 88-74-4----2-Nitroaniline 1700 U 131-11-3-----Dimethylphthalate 350 208-96-8-----Acenaphthylene 350 U 606-20-2----2,6-Dinitrotoluene 350 U

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.16RA

Sample wt/vol: 32.8 (g/mL) G Lab File ID: P17903.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 13 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

Q CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 1700 U 99-09-2----3-Nitroaniline 350 U 83-32-9-----Acenaphthene U 121-14-2----2,4-Dinitrotoluene 350 51-28-5----2,4-Dinitrophenol 1700 U 1700 U 100-02-7----4-Nitrophenol 350 U 132-64-9-----Dibenzofuran 350 U 84-66-2----Diethylphthalate 7005-72-3----4-Chlorophenyl-phenylether 350 U 350 U 86-73-7-----Fluorene U 1700 100-01-6-----4-Nitroaniline U 1700 534-52-1----4,6-Dinitro-2-methylphenol U 86-30-6----N-Nitrosodiphenylamine (1)350 350 U 101-55-3----4-Bromophenylphenylether 350 U 118-74-1-----Hexachlorobenzene 1700 U 87-86-5-----Pentachlorophenol 350 U 85-01-8-----Phenanthrene U 120-12-7-----Anthracene 350 350 U 84-74-2----Di-n-butylphthalate 350 U 206-44-0----Fluoranthene 350 U 129-00-0-----Pyrene 350 U 85-68-7----Butylbenzylphthalate 690 U 91-94-1----3,3'-Dichlorobenzidine U 350 56-55-3----Benzo(a)anthracene U 350 218-01-9-----Chrysene U 350 117-81-7----bis(2-Ethylhexyl)phthalate_ U 350 117-84-0----Di-n-octylphthalate U 350 205-99-2----Benzo(b)fluoranthene U 350 207-08-9----Benzo(k)fluoranthene U 350 50-32-8-----Benzo(a)pyrene U 350 193-39-5----Indeno(1,2,3-cd)pyrene_ U 350 53-70-3-----Dibenz(a,h)anthracene 350 U 191-24-2----Benzo(g,h,i)perylene___ U 350 110-86-1-----Pyridine

10SB124RE

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.16RA

Sample wt/vol:

32.8 (g/mL) G

Lab File ID: P17903.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 13

dec.

Date Extracted: 11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

рн: 8.2

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

U

95-94-3----1,2,4,5-Tetrachlorobenzene

350

INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

			10SB124
Lab Name: SOUTHWEST_LABS_C Lab Code: SWOK Cas Matrix (soil/water): SOIL_ Level (low/med!): LOW_ % Solids:87.2		IC : Lab Sample Date Recei	DG No.: 36197A ID: 36197.16 ved: 10/31/98
Concentration	Units (ug/L or mg/kg dr	y weight): I	MG/KG
CAS No.	Analyte Concentration	C Q M	
7440-38-2 7440-39-3 7440-43-9 7440-47-3	Barium 53.3 Cadmium 0.08	B P	
7439-92-1 7439-97-6	Chromium 5.6 Lead 5.5 Mercury 0.04 Selenium 1.2 Silver 0.13	U WN F	$\overline{\mathbf{v}}$
7410-22-4	0.13	U P	_ _ _
			- - -
			_ _ _ _
2			_ _ _
Color Before: CREY Color After: CREY	Clarity Before: CLE		_ exture: MEDIUM rtifacts:
Comments:			
	FORM T - TN		

10SB125
Lab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32799.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 19 Date Analyzed: 11/03/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3			(45) —		ug/ 11g/	30, 110	~
74-83-9	74-87-3	CHLOROMETHANE	-			6	IJ
75-01-4				-		1	
75-00-3				-		- 1	
T5-09-2	75-00-3			-		- 1	-
67-64-1				-		- 1	
75-35-4	67-64-1	ACETONE		-			J
T5-34-3				-			
67-66-3	75-34-3			-			
107-06-21 2-DICHLOROETHANE 6 U 78-93-32-BUTANONE 6 U 71-55-61 1 1-TRICHLOROETHANE 6 U 56-23-5CARBON TETRACHLORIDE 6 U 75-27-4BROMODICHLOROMETHANE 6 U 78-87-51 2-DICHLOROPROPANE 6 U 79-01-61 2-DIBROMOCHLOROMETHANE 6 U 79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2	67-66-3			-			
78-93-3	107-06-2			-			
71-55-6	78-93-3	2-BUTANONE		-			
56-23-5CARBON TETRACHLORIDE 6 U 75-27-4BROMODICHLOROMETHANE 6 U 78-87-51 2-DICHLOROPROPANE 6 U 79-01-6TRICHLOROETHENE 6 U 124-48-1DIBROMOCHLOROMETHANE 6 U 79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-1	71-55-6	1 1 1-TRICHLOROETHANE	* **	-			
78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 6 124-48-1DIBROMOCHLOROMETHANE 6 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 6 75-25-2BROMOFORM 6 108-10-14-METHYL-2-PENTANONE 6 591-78-62-HEXANONE 6 108-88-3TOLUENE 6 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 2 100-41-4ETHYL BENZENE 6 100-42-5STYRENE 6 156-59-2cis-1 2-DICHLOROETHENE 6 156-60-5trans-1 2-DICHLOROETHENE 6 13-302-07	56-23-5	CARBON TETRACHLORIDE		-			Ū
78-87-51 2-DICHLOROPROPANE 79-01-6TRICHLOROETHENE 6 124-48-1DIBROMOCHLOROMETHANE 6 79-00-51 1 2-TRICHLOROETHANE 71-43-2BENZENE 6 75-25-2BROMOFORM 6 108-10-14-METHYL-2-PENTANONE 6 591-78-62-HEXANONE 6 108-88-3TOLUENE 6 79-34-51 1 2 2-TETRACHLOROETHANE 108-90-7CHLOROBENZENE 2 100-41-4ETHYL BENZENE 6 100-42-5STYRENE 6 156-59-2cis-1 2-DICHLOROETHENE 6 156-60-5	75-27-4	BROMODICHLOROMETHANE		-			U
124-48-1DIBROMOCHLOROMETHANE 6 U 79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-5TOLUENE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5				-			U
124-48-1DIBROMOCHLOROMETHANE 6 U 79-00-51 1 2-TRICHLOROETHANE 6 U 71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5	79-01-6	TRICHLOROETHENE		-1		6	Ü
71-43-2BENZENE 6 U 75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 156-59-2STYRENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 13-302-07m,p-XYLENES 6 U 95-47-6				-			U
75-25-2BROMOFORM 6 U 108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 156-59-2STYRENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07	79-00-5	1 1 2-TRICHLOROETHANE		-			U
108-10-14-METHYL-2-PENTANONE 6 U 591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5				-		6	U
591-78-62-HEXANONE 6 U 127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5m,p-XYLENES 6 U 95-47-6				-		6	U
127-18-4TETRACHLOROETHENE 6 U 108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5				7		6	U
108-88-3TOLUENE 6 U 79-34-51 1 2 2-TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5m,p-XYLENES 6 U 95-47-6				-		6	
79-34-51 1 2 TETRACHLOROETHANE 6 U 108-90-7CHLOROBENZENE 2 J 100-41-4ETHYL BENZENE 6 U 100-42-5STYRENE 6 U 156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6	127-18-4	TETRACHLOROETHENE		-		6	Ŭ
100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6XYLENE 106-93-41 2-DIBROMOETHANE 6 U	108-88-3			-		6	
100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6XYLENE 106-93-41 2-DIBROMOETHANE 6 U			ANE	-	14	6	Ū
100-41-4ETHYL BENZENE 100-42-5STYRENE 156-59-2cis-1 2-DICHLOROETHENE 156-60-5trans-1 2-DICHLOROETHENE 13-302-07m,p-XYLENES 95-47-6XYLENE 106-93-41 2-DIBROMOETHANE 6 U				_		2	J
156-59-2cis-1 2-DICHLOROETHENE 6 U 156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6	100-41-4	ETHYL BENZENE		_		6	
156-60-5trans-1 2-DICHLOROETHENE				_		6	
156-60-5trans-1 2-DICHLOROETHENE 6 U 13-302-07m,p-XYLENES 6 U 95-47-6	156-59-2	cis-1 2-DICHLOROETHENE		-		6	
13-302-07m,p-XYLENES 6 U 95-47-6	156-60-5	trans-1 2-DICHLOROETHE	NE	-		6	
106-93-41 2-DIBROMOETHANE 6 U	13-302-07	m,p-XYLENES		-		6	
	95-47-6	O-XYLENE		-		6	
630-20-61 1 1 2-TETRACHLOROETHANE 6 U				-			
	630-20-6	1 1 1 2-TETRACHLOROETH	ANE	_			U
				_			

10SB125

SDG No.: 36197

mab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK

Case No.: SAIC SAS No.:

Matrix: (soil/water) SOIL Lab Sample ID: 36197.17

Sample wt/vol: 5.0 (q/mL) G Lab File ID: N32799.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 19 Date Analyzed: 11/03/98

Column: (pack/cap) CAP Dilution Factor: 1.0

> CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE 6 U 75-71-8-----DICHLORODIFLUOROMETHANE 6 U 75-69-4-----TRICHLOROFLUOROMETHANE 6 U 74-95-3------DIBROMOMETHANE 6 U 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE 6 U 108-86-1-----BROMOBENZENE 6 U 104-51-8----n-BUTYLBENZENE 6 U 98-06-6-----tert-BUTYLBENZENE 6 U 135-98-8----sec-BUTYLBENZENE U 6 95-49-8-----2-CHLOROTOLUENE U 6 106-43-4-----4-CHLOROTOLUENE U 6 95-50-1-----1 2-DICHLOROBENZENE 6 U 541-73-1----1 3-DICHLOROBENZENE 6 U 106-46-7-----1 4-DICHLOROBENZENE 2 J 142-28-9-----1 3-DICHLOROPROPANE 594-20-7-----2 2-DICHLOROPROPANE 6 U 6 U 563-58-6-----1 1-DICHLOROPROPENE U 6 87-68-3-----HEXACHLOROBUTADIENE 6 U 98-82-8-----ISOPROPYLBENZENE 6 U 99-87-6----p-ISOPROPYLTOLUENE U 6 91-20-3-----NAPHTHALENE 2 J 103-65-1----n-PROPYLBENZENE 6 U 87-61-6-----1 2 3-TRICHLOROBENZENE 6 U 120-82-1-----1 2 4-TRICHLOROBENZENE U 6 95-63-6-----1 2 4-TRIMETHYLBENZENE 6 Ū 108-67-8-----1 3 5-TRIMETHYLBENZENE 6 U 74-97-5-----BROMOCHLOROMETHANE

U

10SB125

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.17

Sample wt/vol: 31.3 (g/mL) G Lab File ID: P17885.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 19 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2----Phenol 390 IJ 111-44-4----bis(2-Chloroethyl)ether 390 U 95-57-8----2-Chlorophenol 390 U 541-73-1----1,3-Dichlorobenzene 390 U 106-46-7----1,4-Dichlorobenzene 45 J 100-51-6----Benzyl alcohol 390 U 95-50-1----1,2-Dichlorobenzene 390 U 95-48-7----2-Methylphenol 390 U 108-60-1-----bis(2-Chloroisopropyl)ether 390 U 106-44-5----4-Methylphenol 390 U 621-64-7----N-Nitroso-di-n-propylamine 390 U U 67-72-1-----Hexachloroethane 390 390 U 98-95-3-----Nitrobenzene 78-59-1-----Isophorone 390 U 390 U 88-75-5----2-Nitrophenol U 105-67-9----2, 4-Dimethylphenol 390 65-85-0-----Benzoic Acid U 1900 390 U 111-91-1----bis(2-Chloroethoxy)methane 120-83-2----2, 4-Dichlorophenol 390 U 390 U 120-82-1----1,2,4-Trichlorobenzene 390 U 91-20-3----Naphthalene U 106-47-8----4-Chloroaniline 390 U 87-68-3-----Hexachlorobutadiene 390 59-50-7----4-Chloro-3-methylphenol_ U 390 390 U 91-57-6----2-Methylnaphthalene U 390 77-47-4-----Hexachlorocyclopentadiene U 390 88-06-2----2,4,6-Trichlorophenol 95-95-4----2,4,5-Trichlorophenol U 1900 U 91-58-7----2-Chloronaphthalene 390 U 88-74-4----2-Nitroaniline 1900 131-11-3-----Dimethylphthalate U 390 U 390 208-96-8-----Acenaphthylene U 606-20-2----2,6-Dinitrotoluene 390

Q

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

10SB125

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.17

Sample wt/vol: 31.3 (g/mL) G Lab File ID: P17885.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 19 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

1900 99-09-2----3-Nitroaniline U 83-32-9----Acenaphthene 390 U 121-14-2----2,4-Dinitrotoluene 390 U 51-28-5----2,4-Dinitrophenol 1900 U 100-02-7----4-Nitrophenol 1900 U 132-64-9-----Dibenzofuran 390 U 84-66-2-----Diethylphthalate 390 U 7005-72-3----4-Chlorophenyl-phenylether U 390 86-73-7-----Fluorene U 390 1900 U 100-01-6-----4-Nitroaniline 534-52-1----4,6-Dinitro-2-methylphenol 1900 U 86-30-6----N-Nitrosodiphenylamine (1) 390 IJ 101-55-3----4-Bromophenylphenylether U 390 118-74-1-----Hexachlorobenzene 390 U 87-86-5----Pentachlorophenol 1900 U 85-01-8-----Phenanthrene 390 U 120-12-7-----Anthracene 390 U 84-74-2----Di-n-butylphthalate 390 U U 206-44-0-----Fluoranthene 390 129-00-0-----Pyrene 390 U 85-68-7----Butylbenzylphthalate 390 U 91-94-1----3,3'-Dichlorobenzidine 780 U 56-55-3-----Benzo(a)anthracene U 390 218-01-9-----Chrysene 390 U 117-81-7----bis(2-Ethylhexyl)phthalate 230 J 117-84-0----Di-n-octylphthalate 390 U U 205-99-2----Benzo(b)fluoranthene 390 207-08-9----Benzo(k)fluoranthene U 390 U 50-32-8-----Benzo(a)pyrene 390 193-39-5----Indeno(1,2,3-cd)pyrene_ 390 U 390 U 53-70-3-----Dibenz(a,h)anthracene 390 U 191-24-2----Benzo(g,h,i)perylene U 110-86-1-----Pyridine 390

EPA SAMPLE NO.

10SB125

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.17

Sample wt/vol:

31.3 (g/mL) G

Lab File ID: P17885.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 19 dec.

Date Extracted: 11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

390

U

10SB125RE

Lab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC

SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.17RA

Sample wt/vol:

31.3 (g/mL) G

Lab File ID: P17904.D

Level:

(low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 19 dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

108-95-2	Phenol	390	U
	bis(2-Chloroethyl)ether	390	U
	2-Chlorophenol	390	U
	1,3-Dichlorobenzene	390	U
	1,4-Dichlorobenzene	44	J
	Benzyl alcohol	390	U
	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
	bis(2-Chloroisopropyl)ether	390	U
106-44-5	4-Methylphenol	390	Ū
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
	Isophorone	390	U
	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic Acid	1900	U
	bis(2-Chloroethoxy)methane	390	Ū
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	Ū
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	ט
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	υ
	Dimethylphthalate	390	ט
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	ן ע
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10SB125RE

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.17RA

Sample wt/vol: 31.3 (g/mL) G Lab File ID: P17904.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 19 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	,		
99-09-2	3-Nitroaniline	1900	U
	Acenaphthene	390	U
	2,4-Dinitrotoluene	390	ប
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenylphenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	780	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	ט
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	1
53-70-3	Dibenz(a,h)anthracene	390	1
191-24-2	Benzo(g,h,i)perylene	390	1
110-86-1	Pyridine	390	ט
			1

10SB125RE

Tab Name: SWL-TULSA

Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.17RA

Sample wt/vol:

31.3 (g/mL) G

Lab File ID: P17904.D

Level: (low/med) LOW

Date Received: 10/31/98

% Moisture: not dec. 19

dec.

Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene_

390

U

1 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

Lab Name: SOUTHWEST_LABS_C Lab Code: SWOK Cas Matrix (soil/water): SOIL_ Level (low/med): LOW % Solids:81.1	se No.: 36:	Contract:SAI 197 SAS No.:	Lab Sampl	10SB125 SDG No.: 36197A e ID: 36197.17 ived: 10/31/98
7440-38-2 7440-39-3 7440-43-9	Analyte Arsenic_ Barium_ Cadmium_ Chromium_ Lead_ Mercury	Concentration 3.1 33.8 0.04 5.6 5.8 0.04 0.27 0.15	C Q U WN	MG/KG M P P P P P P P P O O O O O O O O O O
Color Before: CREY Color After: COLOW	Clari Clari	ty Before: ty After: CLE	AR_	Texture: MEDIUM Artifacts:
Comments:		•		

10SB126 ab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32781.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 20 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3------CHLOROMETHANE 74-83-9-----BROMOMETHANE 6 U 75-01-4-----VINYL CHLORIDE 6 IJ 75-00-3-----CHLOROETHANE 6 U 75-09-2----METHYLENE CHLORIDE 6 JΒ 67-64-1------ACETONE 17 75-35-4-----1 1-DICHLOROETHENE Ū 75-34-3-----1 1-DICHLOROETHANE 6 U 67-66-3------CHLOROFORM U 6 107-06-2----1 2-DICHLOROETHANE U 6 78-93-3----2-BUTANONE 6 U 71-55-6-----1 1 1-TRICHLOROETHANE 6 U 56-23-5-----CARBON TETRACHLORIDE U 6 75-27-4-----BROMODICHLOROMETHANE Ū 6 78-87-5----1 2-DICHLOROPROPANE U 6 79-01-6-----TRICHLOROETHENE U 6 124-48-1-----DIBROMOCHLOROMETHANE 6 U 79-00-5-----1 1 2-TRICHLOROETHANE 6 U 71-43-2----BENZENE 6 U 75-25-2-----BROMOFORM 6 U 108-10-1----4-METHYL-2-PENTANONE 6 U 591-78-6----2-HEXANONE 6 U 127-18-4-----TETRACHLOROETHENE 6 U 108-88-3-----TOLUENE 6 U 79-34-5-----1 1 2 2-TETRACHLOROETHANE U 6 108-90-7-----CHLOROBENZENE 180 Ū 100-41-4----ETHYL BENZENE 6 100-42-5-----STYRENE 6 U 156-59-2----cis-1 2-DICHLOROETHENE 6 U 156-60-5-----trans-1 2-DICHLOROETHENE 6 U 13-302-07----m,p-XYLENES 6 U 95-47-6-------XYLENE 4 J 106-93-4----1 2-DIBROMOETHANE 6 U 630-20-6-----1 1 1 2-TETRACHLOROETHANE U OPERAGE: ETHOOD BET

Hab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N32781.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 20 Date Analyzed: 11/02/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE 6 U 75-71-8-----DICHLORODIFLUOROMETHANE 6 U 75-69-4-----TRICHLOROFLUOROMETHANE 6 U 74-95-3------DIBROMOMETHANE 6 U 96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE 6 U 108-86-1-----BROMOBENZENE 6 U 104-51-8----n-BUTYLBENZENE 230 98-06-6-----tert-BUTYLBENZENE 17 135-98-8-----sec-BUTYLBENZENE 140 95-49-8----2-CHLOROTOLUENE J 4 106-43-4-----4-CHLOROTOLUENE 6 U 95-50-1-----1 2-DICHLOROBENZENE 6 U 541-73-1----1 3-DICHLOROBENZENE U 6 106-46-7----1 4-DICHLOROBENZENE 470 Ε 142-28-9----- 3-DICHLOROPROPANE 6 Ū 594-20-7----2 2-DICHLOROPROPANE 6 U 563-58-6----1 1-DICHLOROPROPENE U 6 87-68-3-----HEXACHLOROBUTADIENE U 98-82-8-----ISOPROPYLBENZENE 86 99-87-6----p-ISOPROPYLTOLUENE ΤĪ 6 91-20-3-----NAPHTHALENE 1100 Ε 103-65-1----n-PROPYLBENZENE 210 87-61-6-----1 2 3-TRICHLOROBENZENE Ū 6 120-82-1-----1 2 4-TRICHLOROBENZENE 6 U 95-63-6-----1 2 4-TRIMETHYLBENZENE 6 U 108-67-8-----1 3 5-TRIMETHYLBENZENE 6 U 74-97-5-----BROMOCHLOROMETHANE U Lab Name: SWL-TULSA Contract: FTHOOD RFI

10SB126DL

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: R31165.D

Level: (low/med) MED Date Received: 10/31/98

% Moisture: not dec. 20 Date Analyzed: 11/04/98

Column: (pack/cap) CAP Dilution Factor: 1.0

Director ractor. 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

	· · · · · · · · · · · · · · · · · · ·	
74-87-3CHLOROMETHANE	780	ט
74-83-9BROMOMETHANE	780	Ü
75-01-4VINYL CHLORIDE	780	Ŭ
75-00-3CHLOROETHANE	780	Ū
75-09-2METHYLENE CHLORIDE	780	Ŭ
67-64-1ACETONE	780	ŭ
75-35-41 1-DICHLOROETHENE	780	ŭ
75-34-31 1-DICHLOROETHANE	780	Ü
67-66-3CHLOROFORM	780	ŭ
107-06-21 2-DICHLOROETHANE	780	וֹט
78-93-32-BUTANONE	780	ŭ
71-55-61 1 1-TRICHLOROETHANE	780	اق
56-23-5CARBON TETRACHLORIDE	780	וט
75-27-4BROMODICHLOROMETHANE	780	וֹט
78-87-51 2-DICHLOROPROPANE	780	ŭ
79-01-6TRICHLOROETHENE	780	Ü
124-48-1DIBROMOCHLOROMETHANE	780	וט
79-00-51 1 2-TRICHLOROETHANE	780	Ü
71-43-2BENZENE	780	บี
75-25-2BROMOFORM	780 780	บ
108-10-14-METHYL-2-PENTANONE	780	Ŭ
591-78-62-HEXANONE	780	<u>ט</u>
127-18-4TETRACHLOROETHENE	780	บี
108-88-3TOLUENE	780	Ü
79-34-51 1 2 2-TETRACHLOROETHANE	780	ט
108-90-7CHLOROBENZENE	460	Ъ
100-41-4ETHYL BENZENE	780	ט
100-42-5STYRENE	780	Ü
156-59-2cis-1 2-DICHLOROETHENE	780	บี
156-60-5trans-1 2-DICHLOROETHENE	780	บ
13-302-07m,p-XYLENES	780	บ
95-47-6XYLENE	780	Ū
106-93-41 2-DIBROMOETHANE	780	บ
630-20-61 1 1 2-TETRACHLOROETHANE	780	וז
	/80	
		l

EPA SAMPLE NO.

10SB126DL

Tab Name: SWL-TULSA

Contract: FTHOOD RFI

Lab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.18DL

Sample wt/vol:

4.0 (g/mL) G

Lab File ID: R31165.D

Level: (low/med) MED

Date Received: 10/31/98

% Moisture: not dec. 20

Date Analyzed: 11/04/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

96-18-41 2 3-TRICHLOROPROPANE	780	ָּט
75-71-8DICHLORODIFLUOROMETHANE	780	U
75-69-4TRICHLOROFLUOROMETHANE	780	U
74-95-3DIBROMOMETHANE	780	U
96-12-81 2-DIBROMO-3-CHLOROPROPANE	780	ע
108-86-1BROMOBENZENE	780	ן ט
104-51-8n-BUTYLBENZENE	1400	ם
98-06-6tert-BUTYLBENZENE	780	U
135-98-8sec-BUTYLBENZENE	1100	D
95-49-82-CHLOROTOLUENE	780	U
106-43-44-CHLOROTOLUENE	780	ַ ט
95-50-11 2-DICHLOROBENZENE	780	Ū
541-73-11 3-DICHLOROBENZENE	780	ប
106-46-71 4-DICHLOROBENZENE	890	D
142-28-91 3-DICHLOROPROPANE	780	U
594-20-72 2-DICHLOROPROPANE	780	Ū
563-58-61 1-DICHLOROPROPENE	780	Ū
87-68-3HEXACHLOROBUTADIENE	780	U
98-82-8ISOPROPYLBENZENE	780	Ü
99-87-6p-ISOPROPYLTOLUENE	780	U
91-20-3NAPHTHALENE	1700	BD
103-65-1n-PROPYLBENZENE	780	ע
87-61-61 2 3-TRICHLOROBENZENE	780	U.
120-82-11 2 4-TRICHLOROBENZENE	780	U
95-63-61 2 4-TRIMETHYLBENZENE	780	U
108-67-81 3 5-TRIMETHYLBENZENE	780	U
74-97-5BROMOCHLOROMETHANE	780	U

10SB126

P17886.D

Lab File ID:

Lab Name: SWL-TULSA Contract: FORT HOOD R

31.7 (g/mL) G

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 20 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/06/98

Concentrated Extract Volume: 1000(uL)

Sample wt/vol:

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2Phenol	390	ט
111-44-4bis(2-Chloroethyl)ether	390	ע
95-57-82-Chlorophenol	390	U
541-73-11,3-Dichlorobenzene	390	וט
106-46-71,4-Dichlorobenzene	880	
100-51-6Benzyl alcohol	390	Ū
95-50-11,2-Dichlorobenzene	390	וט
95-48-72-Methylphenol	390	Ū
108-60-1bis(2-Chloroisopropyl)ether	390	Ū
106-44-54-Methylphenol	390	Ü
621-64-7N-Nitroso-di-n-propylamine	390	บ
67-72-1Hexachloroethane	390	Ü
98-95-3Nitrobenzene	390	Ü
78-59-1Isophorone	390	บ
88-75-52-Nitrophenol	390	บ
105-67-92,4-Dimethylphenol	390	บ
65-85-0Benzoic Acid	1900	บ
	390	Ü
111-91-1bis(2-Chloroethoxy)methane	390	บ
120-83-22,4-Dichlorophenol	390	U.
120-82-11,2,4-Trichlorobenzene		U
91-20-3Naphthalene	2400	<u>U</u>
106-47-84-Chloroaniline	390	
87-68-3Hexachlorobutadiene	390	Ŭ
59-50-74-Chloro-3-methylphenol	390	บ
91-57-62-Methylnaphthalene	590	
77-47-4Hexachlorocyclopentadiene	390	Ū
88-06-22,4,6-Trichlorophenol	390	ט
95-95-42,4,5-Trichlorophenol	1900	Ū
91-58-72-Chloronaphthalene	390	U
88-74-42-Nitroaniline	1900	U
131-11-3Dimethylphthalate	390	U
208-96-8Acenaphthylene	390	U
606-20-22,6-Dinitrotoluene	390	υ
I	·	

10SB126RE

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18RA

Sample wt/vol: 31.7 (g/mL) G Lab File ID: P17914.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 20 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2Phenol	390	ט
111-44-4bis(2-Chloroethyl)ether	390	Ū
95-57-82-Chlorophenol	390	Ū
541-73-11,3-Dichlorobenzene	390	τι
106-46-71,4-Dichlorobenzene	680	
100-51-6Benzyl alcohol	390	<u>U</u>
95-50-11,2-Dichlorobenzene	390	Ü
95-48-72-Methylphenol	390	บ
108-60-1bis(2-Chloroisopropyl)ether	390	Ü
106-44-54-Methylphenol	390	บ
621-64-7N-Nitroso-di-n-propylamine	390	Ü
67-72-1Hexachloroethane	390	บ
98-95-3Nitrobenzene	390	Ŭ
78-59-1Isophorone	390	Ŭ
88-75-52-Nitrophenol	390	Ŭ
105-67-92,4-Dimethylphenol	390	บี
65-85-0Benzoic Acid	1900	Ŭ
111-91-1bis(2-Chloroethoxy)methane	390	Ŭ
120-83-22,4-Dichlorophenol	390	Ŭ
120-82-11,2,4-Trichlorobenzene	390	IJ
91-20-3Naphthalene	1900	J
106-47-84-Chloroaniline	390	Ū
87-68-3Hexachlorobutadiene	390	บ
59-50-74-Chloro-3-methylphenol	390	U
01-57-6	450	U
91-57-62-Methylnaphthalene	390	<u></u>
77-47-4Hexachlorocyclopentadiene		Ü
88-06-22,4,6-Trichlorophenol	390	บ
95-95-42,4,5-Trichlorophenol	1900	ט
91-58-72-Chloronaphthalene	3.90	U
88-74-42-Nitroaniline	1900	บ
131-11-3Dimethylphthalate	390	U
208-96-8Acenaphthylene	390	U
606-20-22,6-Dinitrotoluene	390	"
		l

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) SOIL Lab Sample ID: 36197.18RA

Sample wt/vol: 31.7 (g/mL) G Lab File ID: P17914.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 20 dec. Date Extracted:11/02/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/10/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

1900 U 99-09-2----3-Nitroaniline 390 U 83-32-9-----Acenaphthene 390 U 121-14-2----2, 4-Dinitrotoluene 1900 U 51-28-5----2,4-Dinitrophenol___ 1900 U 100-02-7----4-Nitrophenol U 390 132-64-9------Dibenzofuran 390 U 84-66-2----Diethylphthalate 390 U 7005-72-3----4-Chlorophenyl-phenylether 390 U 86-73-7----Fluorene 1900 U 100-01-6-----4-Nitroaniline 1900 U 534-52-1----4,6-Dinitro-2-methylphenol_ 86-30-6----N-Nitrosodiphenylamine_(1) 1500 390 Ū 101-55-3----4-Bromophenylphenylether 390 U 118-74-1-----Hexachlorobenzene U 1900 87-86-5----Pentachlorophenol 690 85-01-8-----Phenanthrene 390 $\overline{\mathtt{U}}$ 120-12-7-----Anthracene 640 84-74-2----Di-n-butylphthalate 390 Ū 206-44-0----Fluoranthene 390 U 129-00-0----Pyrene 390 U 85-68-7----Butylbenzylphthalate 780 U 91-94-1----3,3'-Dichlorobenzidine U 390 56-55-3-----Benzo(a)anthracene 190 J 218-01-9-----Chrysene 1900 117-81-7-----bis(2-Ethylhexyl)phthalate_ Ū 390 117-84-0----Di-n-octylphthalate U 390 205-99-2----Benzo(b)fluoranthene U 390 207-08-9----Benzo(k)fluoranthene U 390 50-32-8-----Benzo(a)pyrene U 390 193-39-5----Indeno(1,2,3-cd)pyrene_ U 390 53-70-3-----Dibenz(a,h)anthracene U 390 191-24-2----Benzo(g,h,i)perylene__ U 390 110-86-1-----Pyridine

10SB126RE

Lab Name: SWL-TULSA

Contract: FORT HOOD R

_ab Code: SWOK

Case No.: SAIC SAS No.:

SDG No.: 36197

Matrix: (soil/water) SOIL

Lab Sample ID: 36197.18RA

Sample wt/vol:

31.7 (g/mL) G

Lab File ID: P17914.D

Level: (low/med)

LOW

Date Received: 10/31/98

% Moisture: not dec.

20 dec.

Date Extracted: 11/02/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/10/98

Concentrated Extract Volume:

1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.9

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

95-94-3----1,2,4,5-Tetrachlorobenzene

390

U

1 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

Lab Name: SOUTE Lab Code: SWOK Matrix (soil/we Level (low/med) % Solids:	: LOW_ _80.4	1	Contract:SAl 197 SAS No.:	Date Rec	10SB126 SDG No.: 36197A le ID: 36197.18 eived: 10/31/98 : MG/KG
	7410-38-2 7410-39-3 7410-43-9 7410-47-3 7410-47-3 7419-92-1 7419-97-6 7712-49-2	Analyte Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	Concentration 7.5 50.0 2.2 11.5 99.7 0.07 1.3 0.15	C Q	M P P P P P P A V F P P
Color Before: Color After: Comments:	CR4Y	Clari Clari	ty Before: ty After: CLE	AR_	Texture: MEDIUM Artifacts:



EPA SAMPLE NO.

10GW101

SDG No.: 36197

hab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.:

ab hame. and rough.

Matrix: (soil/water) WATER Lab Sample ID: 36197.19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K25192.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. _____ Date Analyzed: 11/06/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L (

	1	
74-87-3CHLOROMETHANE	5	ט
74-83-9BROMOMETHANE	5	Ü
75-01-4VINYL CHLORIDE	26	
75-00-3CHLOROETHANE	5	
75-09-2METHYLENE CHLORIDE	5	Ü
67-64-1ACETONE	6	
75-35-41 1-DICHLOROETHENE	5	U
75-34-31 1-DICHLOROETHANE	5	Ü
67-66-3CHLOROFORM	5	Ū
107-06-21 2-DICHLOROETHANE	5	Ū
78-93-32-BUTANONE	5	Ū
71-55-61 1 1-TRICHLOROETHANE	5	Ū
56-23-5CARBON TETRACHLORIDE	5	Ü
75-27-4BROMODICHLOROMETHANE	5	Ŭ
78-87-51 2-DICHLOROPROPANE	5	Ū
79-01-6TRICHLOROETHENE	5	Ū
124-48-1DIBROMOCHLOROMETHANE	5	Ū
79-00-51 1 2-TRICHLOROETHANE	5	
71-43-2BENZENE	3	
75-25-2BROMOFORM	5	Ū
108-10-14-METHYL-2-PENTANONE	5	Ū
591-78-62-HEXANONE	5	Ū
127-18-4TETRACHLOROETHENE	1 5	
108-88-3TOLUENE		
79-34-51 1 2 2-TETRACHLOROETHANE	2	Ū
108-90-7CHLOROBENZENE	84	
100-41-4ETHYL BENZENE	5	
100-42-5STYRENE		
156-60-5trans-1 2-DICHLOROETHENE		Ŭ
156-59-2cis-1 2-DICHLOROETHENE	-	Ü
13-302-07m,p-XYLENES		Ü
95-47-6XYLENE		J
106-93-41 2-DIBROMOETHANE		
630-20-61 1 1 2-TETRACHLOROETHANE		i ü
1 1 1 2 INTROCTIONOETHANE	•	<u>' </u>

10GW101

mab Name: SWL-TULSA Contract: FTHOOD RFI

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

- 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7

Matrix: (soil/water) WATER Lab Sample ID: 36197.19

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K25192.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. _____ Date Analyzed: 11/06/98

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-86-18-4	ם מ מ
5-71-8	ט ט ט
75-69-4TRICHLOROFLUOROMETHANE 5 74-95-3DIBROMOMETHANE 5 96-12-81 2-DIBROMO-3-CHLOROPROPANE 5 108-86-1BROMOBENZENE 5	ָ ע ע
74-95-3	U U
96-12-81 2-DIBROMO-3-CHLOROPROPANE_ 5 108-86-1BROMOBENZENE 5	Ū
108-86-1BROMOBENZENE 5	
104-51-8	J
98-06-6tert-BUTYLBENZENE 5	U
135-98-8sec-BUTYLBENZENE 3	Ĵ
95-49-82-CHLOROTOLUENE 5	
106-43-44-CHLOROTOLUENE 5	Ū
95-49-82-CHLOROTOLUENE 5 106-43-44-CHLOROTOLUENE 5 95-50-11 2-DICHLOROBENZENE 2 541-73-11 3-DICHLOROBENZENE 5	l J
541-73-11 3-DICHLOROBENZENE 5	U
106-46-71 4-DICHLOROBENZENE 25	
142-28-91 3-DICHLOROPROPANE 5	ਹ
594-20-72 2-DICHLOROPROPANE 5	U
563-58-6 1 1-DICHLOROPROPENE 5	U
87-68-3HEXACHLOROBUTADIENE 5	U
98-82-8ISOPROPYLBENZENE	J
99-87-6p-ISOPROPYLTOLUENE 5	
91-20-3NAPHTHALENE 59	1
103-65-1n-PROPYLBENZENE 7	
87-61-61 2 3-TRICHLOROBENZENE 2	
120-82-11 2 4-TRICHLOROBENZENE 2	J
95-63-61 2 4-TRIMETHYLBENZENE 5	ט
108-67-81 3 5-TRIMETHYLBENZENE	
74-97-5BROMOCHLOROMETHANE	U U

10GW101

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) WATER Lab Sample ID: 36197.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H3632.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 0 dec. Date Extracted:11/01/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/04/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
U	10		Phenol	108-95-2
U	10		bis(2-Chloroethyl)ether	
U	10		2-Chlorophenol	95-57-8
τ	10		1,3-Dichlorobenzene	
	17		1,4-Dichlorobenzene	106-46-7
Ţ	10		Benzyl alcohol	
τ	10		1,2-Dichlorobenzene	95-50-1
τ	10		2-Methylphenol	95-48-7
1	10		bis(2-Chloroisopropyl)ether	
1	10		4-Methylphenol	106-44-5
1	10		N-Nitroso-di-n-propylamine	
1	10		Hexachloroethane	67-72-1
1	10		Nitrobenzene	
•	10		Isophorone	
	10		2-Nitrophenol	
	10		2,4-Dimethylphenol	105-67-9
	6		Benzoic Acid	
	10		bis(2-Chloroethoxy)methane	
	10		2,4-Dichlorophenol	
	10	Tar	1,2,4-Trichlorobenzene	120-82-1
	27		Naphthalene	91-20-3
	10		4-Chloroaniline	
	10		Hexachlorobutadiene	
	10		4-Chloro-3-methylphenol	
	2		2-Methylnaphthalene	
	10		Hexachlorocyclopentadiene	77-47-4
	10		2,4,6-Trichlorophenol	88-06-2
	50		2,4,5-Trichlorophenol	
	10		2-Chloronaphthalene	91-58-7
	50		2-Nitroaniline	88-74-4
	10		Dimethylphthalate	
	10		Acenaphthylene	208-96-8
			z, o ziniciocotacho	000 20 2
	10		2,6-Dinitrotoluene	

10GW101

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) WATER Lab Sample ID: 36197.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H3632.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 0 dec. Date Extracted:11/01/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/04/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

•	LAS NO.	COMPOUND	(ug/L or ug/l	(g) UG/L		Q
	99-09-2	-3-Nitroaniline		5(5	ט
	83-32-9			10	o	ע ו
1:	121-14-2	-2,4-Dinitrot oluen	e	10	o	ט
1 !	51-28-5	-2,4-Dinitrophenol		50	0	U
	100-02-7			56	0	וט
	132-64-9			10	0	וט
1 :	84-66-2	-Diethylphthalate_		•	2	J
1	7005-72-3	-4-Chlorophenyl-ph	envlether	10	0	ן ט
1	86-73-7	-Fluorene	-	1	0	ט
1	100-01-6	-4-Nitroaniline		5	0	U
-	534-52-1	-4,6-Dinitro-2-met	hylphenol	5	0	ע
	86-30-6	-N-Nitrosodiphenyl	amine (1)		6	J
	101-55-3	-4-Bromophenylpher	vlether	1	0	ט
	118-74-1	-Hexachlorobenzene		1	0	U
		-Pentachlorophenol		5	0	וט
	85-01-8			1	0	U
1	120-12-7			1	0	υl
		-Di-n-butylphthala	ate	1	0	U
	206-44-0	-Fluoranthene		. 1	0	ָ ט
1	129-00-0			1	0	ן ט
		-Butylbenzylphthal	Late	1	0	ן ט
1	91-94-1	-3,3'-Dichlorobena	zidine	2	0	U
1	56-55-3	-Benzo(a)anthrace	ne	1	0	ן ט
ı	218-01-9	-Chrysene		1	0	ַ
	117-81-7	-bis(2-Ethylhexyl)phthalate		4	JB
- 1	117-84-0	-Di-n-octylphthala	ate	_	0	U
	205-99-2	-Benzo(b)fluorant	hene		.0	ן ט
	207-08-9	-Benzo(k)fluorant	hene		.0	ן ט
- [50-32-8	-Benzo(a)pyrene			0	U
1	193-39-5	-Indeno(1,2,3-cd)	pyrene		.0	ַ
	53-70-3	-Dibenz(a,h)anthr	acene		.0	U
	191-24-2	Benzo(g,h,i)pery	lene		.0	ַן ט
	110-86-1	Pyridine		1	.0	ן ט

10GW101

Lab Name: SWL-TULSA Contract: FORT HOOD R

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 36197

Matrix: (soil/water) WATER Lab Sample ID: 36197.19

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H3632.D

Level: (low/med) LOW Date Received: 10/31/98

% Moisture: not dec. 0 dec. Date Extracted:11/01/98

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 11/04/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

95-94-3----1,2,4,5-Tetrachlorobenzene______10_____

1 INORGANIC ANALYSES DATA SHEET

CLIENT	C 7	MDT	.ਜ.	TT

Lab Name: SOUTHWEST 1	LABS OF OK	Contract:SAIC	10GW101
Lab Code: SWOK Matrix (soil/water): Level (low/med): % Solids:	Case No.: 3619	Lab Samp	SDG No.: 36197B le ID: 36197.19 eived: 10/31/98

Concentration Units (ug/L or mg/kg dry weight): $UG/L_{_}$

1			- 1		
CAS No.	Analyte	Concentration	С	Q	М
7440-38-2	Arsenic Barium	23.4			P_ P_
7440-39-3 7440-43-9	Cadmium	7.6	_		P P
7440-47-3 7439-92-1	Chromium_ Lead	39.2 248	_		P_ P
7439-97-6	Mercury	0.47		$\frac{N}{N}$	A∇
7782-49-2 7440-22-4	Selenium_ Silver	2.2	Ū U	WIN	F_ P_
			_		_
			_		
			_		_
			-		
			_		
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					.

Color Before: Color After:	COLORLESS COLORLESS	Clarity Before: CLEAR_ Texture: Clarity After: CLEAR_ Artifacts	:
Comments:			
		FORM I - IN	

APPENDIX D

Fort Hood RFI Background Soils Data

FH-BKG Fort Hood Background

Analytical Results

Station: SB101 Background Soil Bori	ng SB101					
Sample ID: FH000-SB10112-10-96/2.0-2.5	(BKSB101)	Sample Depth:	2. 0-2.5 FT			
Matrix: Soil		Field Sample Type:	Grab		Collected: 1	2/10/96
Metals		Result	Detection Limit	Units	Qua Lab	difiers Data
Arsenic		3	0.41	MG/KG		_
Barium		21.3	0.10	MG/KG	•	J
Cadmium		0.12	0.05	MG/KG	В	
Chromium		5.1	0.10	MG/KG	E*	J
Lead		6	0.17	MG/KG	EN*	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.37	0.37	MG/KG	U	U
Silver		0.24	0.24	MG/KG	U	υ
Sample ID: FH000-SB10212-10-96/4.0-4.7	(BKSB102)	Sample Depth:	4.0-4.7 FT			
Matrix: Soil		Field Sample Type:	Grab		Collected:	12/10/96
			Detection	11-14-		alifiers
Metais		Result	Limit	Units	Lal	Data
Arsenic		2	0.39	MG/KG		

Silver

Qualifiers Lab Data 0.10 MG/KG 8 **Barium** 0.05 MG/KG 0.05 В Cadmium 0.10 MG/KG E* 10.3 Chromium 5 0.17 MG/KG Lead U MG/KG U 0.04 0.04 Mercury 0.36 0.36 MG/KG U U Selenium U MG/KG U 0.23 0.23 Silver

Sample Depth: 10.5-11.0 FT (BKSB103) Sample ID: FH000-SB10312-10-96/10.5-11.0

Collected: 12/10/96 Field Sample Type: Grab Matrix: Soil Qualifiers Detection Units Metals Result Lab Data Limit 0.42 MG/KG 9.1 Arsenic MG/KG 14.7 0.10 J Barium 0.05 u U 0.05 MG/KG Cadmium E* 10.1 0.10 MG/KG Chromium MG/KG EN* J 0.18 9.5 Lead 0.04 MG/KG U U 0.04 Mercury U U MG/KG 0.38 Selenium 0.38 U 0.24 MG/KG U 0.24

ample ID: FH000-SB12112-12-96/0.0-1.5 (BKSB121)	Sample Depth:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 12/	
Metals	Result	Detection Limit	Units	Qualif Lab	iers Data
Arsenic	4.1	0.38	MG/KG		
Barium	24	0. 09	MG/KG		
Cadmium	0.18	0. 05	MG/KG	В	
Chromium	6.3	0.09	MG/KG		
Lead	10.2	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U
ample ID: FH000-SB12212-12-96/14.0-14.5 (BKSB122)	Sample Depth:	14.0-14.5 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	<u>/</u> 12/96
		Detection		Quali	fiers
Metals	Result	<u>Limit</u>	Units	Lab	Data
Arsenic	3.2	0.36	MG/KG		
Barium	6.1	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	8	
Chromium	4.9	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	Ü	u
Silver	0.21	0.21	MG/KG	Ū	ū
Sample ID: FH000-SB12312-12-96/19.0-19.5 (BKSB123)	Sample Depth:			_	_
Matrix: Soil	Field Sample Type			Collected: 1:	2/12/96
IVIGUIA. COII	riole Cumple Type	Detection			lifiers
Metals	Result	Limit	Units	Lab	Dat
Arsenic	3.8				
Barium	5.5	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	В	
Chromium	4.3	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	
Mercury	0.04	0.04	MG/KG	U	l
Selenium	0.33	0.33	MG/KG	U	ι
Silver	0.21	0.21	MG/KG	U	ι
Sample ID: FH000-SB20212-12-96/0.0-1.5 (BKSB202)	Sample Depth	: 0.0-1.5 FT			
Matrix: Soil	Field Sample Type	: Field Duplica	ite	Collected: 1	2/12/9
		Detection			alifiers
Metals	Result	Limit	Units 	Lab	Da
	4.5	2 0.37	MG/KG		
Arsenic		2 0.09	MG/KG		
Arsenic Barium	18.3				
	18.: 0.1:		MG/KG	В	
Barium		2 0.04			
Barium Cadmium Chromium	0.13	2 0.04 9 0.09	MG/KG	i	
Barium Cadmium Chromium Lead	0.1: 5.: 4.:	2 0.04 9 0.09 5 0.16	MG/KG	EN	
Barium Cadmium Chromium	0.12 5.5	2 0.04 9 0.09 5 0.16 4 0.04	MG/KG MG/KG MG/KG	EN U	

imple ID: FH000-SB10412-10-96/0.0-1.5 (BKSB104)	Sample Depth:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	
Metals	Result	Detection Limit	Units	Quali Lab	fiers Data
Arsenic	6.2	0.35	MG/KG		
Barium	28.2	0. 08	MG/KG	•	J
Cadmium	0.15	0.04	MG/KG	В	
Chromium	3.1	80.0	MG/KG	E*	J
Lead	5.3	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U
ample ID: FH000-SB10512-10-96/4.0-6.0 (BKSB105)	Sample Depth:	4.0-6.0 FT			
Matrix: Soil	Field Sample Type:			Collected: 1	2/10/96
		Detection		Qua	ifiers
Metals	Result	Limit	Units	Lab	Dat
Arsenic	4.3	0.36	MG/KG		
8arium	23.4	0. 09	MG/KG	•	J
Cadmium	0.11	0.04	MG/KG	В	
Chromium	4	0.09	MG/KG	E*	J
Lead	3.9	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	ι
Selenium	0.33	0.33	MG/KG	U	ι
Silver	0.21	0.21	MG/KG	U	ι
Sample ID: FH000-SB10612-10-96/9.0-9.4 (BKSB106)	Sample Depth:	9. 0-9.4 FT			
Matrix: Soil	Field Sample Type	Grab		Collected: 1	2/10/96
Metals	Result	Detection Limit	Units	Qua Lab	difiers Da
Arsenic	4.4		MG/KG		
Barium	43.7		MG/KG		
Cadmium	0.16			В	
Chromium	7.6		MG/KG	E*	
Lead	·			EN*	
	0.04			U	Ì
Mercury	0.33			U	
Selenium	0.33		MG/KG	U	
Silver				0	
Sample ID: FH000-SB10712-10-96/14.0-15.0 (BKSB107) Matrix: Soil	Sample Depth Field Sample Type	: 14.0-15.0 FT		Collected:	12/10/9
Matrix. Con	Tield Dample Type	Detection			alifiers
Metals	Result	Limit	Units		
Arsenic	5:		MG/KG		
Barium	135				
Cadmium	0.3				
Chromium	5.				
Lead	6.				
	0.0				
Mercury					
Mercury Selenium	0.3				

	0.0-1.0 FT		0.11	4.100
Field Sample Type:	Grab		Collected: 12/1	
Result	Detection Limit	Units	Qualifie Lab	Data
6	0. 40	MG/KG		
72.4	0.10	MG/KG	•	j
0.2	0. 05	MG/KG	В	
12.9	0.10	MG/KG	E*	J
9.8	0.17	MG/KG	EN*	J
0.04	0.04	MG/KG	U	U
0.37	0.37	MG/KG	U	U
0.23	0.23	MG/KG	U	U
Sample Depth:	4.0-5.0 FT			
• •			Collected: 12/	11/96
			Qualifi	ers
Result	Limit	Units	Lab	Data
3.5	0.38	MG/KG		
155	0.09	MG/KG	•	J
0.07	0.05	MG/KG	В	
6.5	0.09	MG/KG	E*	J
3.2	0.16	MG/KG	EN*	J
0.04	0.04	MG/KG	U	U
0.34	0.34	MG/KG	U	U
0.22	0.22	MG/KG	U	U
Sample Depth:	11.0-11.5 FT			
Field Sample Type:	Grab		Collected: 12	
	Detection	1.1-14-		
	Limit		Lab	Data
-			•	J
0.06	0.05			
16.6	0.10	MG/KG		J
7.8	0.17	MG/KG	EN*	J
0.04	0.04	MG/KG	U	U
0.36	0.36	MG/KG	U	U
0.23	0.23	MG/KG	U	U
Sample Depth:	18.0-18.5 FT	•		
Field Sample Type:	Grab			
Result	Detection Limit	Units		ifiers Dat
5.2		MG/KG		
J				j
7.2	U.US			
7.2 0.05				
0.05	0.05	MG/KG	В	
0. 05 6.2	0.05	MG/KG MG/KG	B €*	
0. 05 6.2 5.3	0.05 0.09 0.16	MG/KG MG/KG MG/KG	B E* EN*	•
0. 05 6.2	0.05 0.09 0.16 0.04	MG/KG MG/KG MG/KG MG/KG	B E* EN* U	
	72.4 0.2 12.9 9.8 0.04 0.37 0.23 Sample Depth: Field Sample Type: Result 3.5 155 0.07 6.5 3.2 0.04 0.34 0.22 Sample Depth: Field Sample Type: Result 4.8 24.1 0.06 16.6 7.8 0.04 0.36 0.23 Sample Depth: Field Sample Type:	6 0.40 72.4 0.10 0.2 0.05 12.9 0.10 9.8 0.17 0.04 0.04 0.37 0.37 0.23 0.23 Sample Depth: 4.0-5.0 FT Field Sample Type: Grab Result Detection Limit 3.5 0.38 155 0.09 0.07 0.05 6.5 0.09 3.2 0.16 0.04 0.04 0.34 0.34 0.22 0.22 Sample Depth: 11.0-11.5 FT Field Sample Type: Grab Result Detection Limit 4.8 0.40 24.1 0.10 0.06 0.05 16.6 0.10 7.8 0.17 0.04 0.04 0.36 0.36 0.23 0.23 Sample Depth: 18.0-18.5 FT Field Sample Type: Grab	6	6 0.40 MG/KG 72.4 0.10 MG/KG 72.4 0.10 MG/KG 8 12.9 0.10 MG/KG E* 9.8 0.17 MG/KG EN* 0.04 0.04 MG/KG U 0.37 0.37 MG/KG U Sample Depth: 4.0-5.0 FT Field Sample Type: Grab Collected: 12/

tation: SB105 Background Soil Boring SB105					
Sample ID: FH000-SB11212-11-96/1.0-1.5 (BKSB112)	Sample Depth:	1.0-1.5 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	
Metals	Result	Detection Limit	Units	Qual Lab	ifiers Data
Arsenic	1.6	0.35	MG/KG		
Barium	6.6	0.09	MG/KG	•	J
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4	0.09	MG/KG	E*	J
Lead	1.5	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U
Sample ID: FH000-SB11312-11-96/4.0-5.0 (BKSB113)	Sample Depth:	4.0-5.0 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 1	2/11/96
		Detection		Qua	lifiers
Metals	Result	Limit	Units	Lab	Data
Arsenic	5.7	0.40	MG/KG		
Barium	20.5	0.10	MG/KG	•	J
Cadmium	0.07	0.05	MG/KG	В	
Chromium	8.9	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0. 36	MG/KG	Ų	U
Silver	0.23	0.23	MG/KG	U	U
Sample ID: FH000-SB11412-11-96/11.0-12.0 (BKSB114)	Sample Depth:	11.0-12.0 FT	•		
Matrix: Soil	Field Sample Type:	Grab		Collected:	12/11/96
Metals	Result	Detection Limit	Units	Qua Lab	alifiers Data
Arsenic	5.2	0.42	MG/KG		
Barium	25.2	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	20.3	0.10	MG/KG	E*	J
Lead	7.7	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U
Sample ID: FH000-SB11512-11-96/15.0-15.5 (BKSB115)		: 15. 0-15.5 F 7	r		
Matrix: Soil	Field Sample Type			Collected:	12/11/96
		Detection		Qu	alifiers
Metals	Result	Limit	Units	<u>Lal</u>	b Data
Arsenic	5.3	0.36	MG/KG		
Barium	10.6	0.09	MG/KG	•	J
Cadmium	0.06	0.04	MG/KG	В	
Chromium	7.3	3 0.09	MG/KG	E*	J
		0.45	MG/KG	EN*	j
Lead	5.1	0.15	IVIGING		•
Lead Mercury	5.° 0.0-			U	Ü
		4 0.04	MG/KG		

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB11612-11-96/22.0-22.5 (BKSB116)

Sample Depth: 22.0-22.5 FT

Matrix: Soil	Field Sample Type:	Grab		Collected: 12	/11/96
Metals	Result	Detection Limit	Units	Qualif Lab	
Arsenic	11.6	0.37	MG/KG		
Barium	4.9	0.09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	В	
Chromium	2.7	0. 09	MG/KG	E*	J
Lead	5.6	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

ation: SB106 Background Soil Boring SB106					
Sample ID: FH000-SB11712-12-96/0.0-1.0 (BKSB117)	Sample Depth:	0.0-1.0 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 12/	
Metals	Result	Detection Limit	Units	Qualifi Lab	iers Data
Arsenic	4.4	0.37	MG/KG		
Barium	27.9	0. 09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	В	
Chromium	5.7	0.09	MG/KG	E*	J
Lead	8.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB11812-12-96/9.0-9.5 (BKSB118)	Sample Depth:	9. 0-9 .5 FT			
Matrix: Soil	Field Sample Type:	Grab		Collected: 12	/12/96
		Detection	·	Quali	fiers
Metais	Resuit	Limit	Units	Lab	Data
Arsenic	2.6	0.37	MG/KG		
Barium	4.4	0.09	MG/KG	•	J
Cadmium	0.19	0.04	MG/KG	8	
Chromium	2.2	0.09	MG/KG	E*	J
Lead	3.7	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	u
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB11912-12-96/14.0-14.5 (BKSB119)	Sample Depth:	14.0-14.5 FT			
Matrix: Soil	Field Sample Type			Collected: 13	2/12/96
		Detection		Qua	lifiers
Metals	Result	Limit	Units	Lab	Dat
Arsenic	0.66	0.37	MG/KG	В	
Barium	3	0.09	MG/KG		
Cadmium	0.06	0.04		В	
Chromium	2.1	0.09	MG/KG		
Lead	1.3	0.16	MG/KG	EN	
Mercury	0.04	0.04	MG/KG	U	į
Selenium	0.33	0.33	MG/KG	U	ţ
Silver	0.21	0.21	MG/KG	U	ı
Sample ID: FH000-SB12012-12-96/19.0-20.0 (BKSB120)	Sample Depth	: 19.0-20.0 FT	-		
Matrix: Soil	Field Sample Type	: Grab		Collected: 1	2/12/9
Metals	Resuit	Detection	Units		llifiers Da
		Limit			
Arsenic	0.4				
Barium		2 0.08			
Cadmium	0.0				
Chromium	0.9				
Lead	0.79				
Mercury	0.0				
Selenium	0.3 0.				

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20112-12-96/0.0-1.0

(BKSB201)

Sample Depth: 0.0-1.0 FT

Matrix: Soil	Field Sample Type:	Field Duplicate	:	Collected:	12/12/96
Metals	Result	Detection Limit	Units	Qu Lai	alifiers Data
Arsenic	4.4	0.36	MG/KG		
Barium	17.9	0.09	MG/KG		
Cadmium	0.14	0.04	MG/KG	В	
Chromium	2.6	0. 09	MG/KG		
Lead	5.9	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

ample ID: FH000-SB12412-12-96/0.0-1.0 (BKS)	3124) Sam	ple Depth:	0.0-1.0 FT			
Matrix: Soil	Field Sar	nple Type:	Grab	(Collected: 12/1	2/96
And the second s			Detection		Qualific	
Metals		Result	Limit	Units	Lab	Data
Arsenic		6	0.37	MG/KG		
Barium		19.3	0.09	MG/KG		
Cadmium		0.11	0.04	MG/KG	В	
Chromium		7.2	0.09	MG/KG		
Lead		4.5	0.16	MG/KG	EN	j
Mercury		0. 04	0.04	MG/KG	U	U
Selenium		0.34	0.34	MG/KG	υ	U
Silver		0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB12512-12-96/4.0-4.5 (BKS	B125) San	nple Depth:	4.0-4.5 FT			
Matrix: Soil	Field Sa	mple Type:	Grab		Collected: 12/	12/96
			Detection		Qualif	iers
Metals		Result	<u>Limit</u>	Units	Lab_	Data
Arsenic		3.2	0.35	MG/KG		
Barium		18.1	0.09	MG/KG		
Cadmium		0.11	0.04	MG/KG	В	
Chromium		5.1	0.09	MG/KG		
Lead		1.7	0.15	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.36	0.32	MG/KG	В	
Silver		0.2	0.20	MG/KG	U	U
	SB126) Sa		5. 5-6 .0 FT			
Matrix: Soil	•	ample Type			Collected: 12	/12/96
Marx. Joh			Detection		Quali	fiers
Metals		Result	Limit	Units	Lab	Data
Arsenic		2.5	0.36	MG/KG		
Barium		5.4	0.09	MG/KG		
Cadmium		0.06	0.04	MG/KG	В	
Chromium		5.5	0.09	MG/KG		
Lead		1.5	0.15	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	ι
Selenium		0.44	0.33	MG/KG	В	
						ι
			0.21	MG/KG	U	
Silver	(SB203) Sa	0.2		MG/KG	U	
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (Bk	•	0.2° Imple Depth	0.0-1.0 FT		_	
Silver	•	0.2° Imple Depth	: 0.0-1.0 FT E: Field Duplica		Collected: 1	
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (Bk	•	0.2° Imple Depth	0.0-1.0 FT Field Duplica		Collected: 1	2/12/90
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BM Matrix: Soil Metals	•	0.24 Imple Depth Sample Type Result	Detection	ute Units	Collected: 1	2/12/90 lifiers
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BM Matrix: Soil Metals Arsenic	•	0.24 ample Depth Sample Type Result 5.1	0.0-1.0 FT Field Duplica Detection Limit 0.37	Units MG/KG	Collected: 1	2/12/9 lifiers
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BMMatrix: Soil Metals Arsenic Barium	•	0.24 ample Depth Sample Type Result 5.3	0.0-1.0 FT E: Field Duplica Detection Limit 0.37 0.00	Units MG/KG MG/KG	Collected: 1 Qua Lab	2/12/9 lifiers
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BMMatrix: Soil Metals Arsenic Barium Cadmium	•	0.2' ample Depth sample Type Result 5.3 0.1	0.0-1.0 FT E: Field Duplica Detection Limit 0.037 0.09 7 0.005	Units MG/KG MG/KG MG/KG MG/KG	Collected: 1	2/12/9 lifiers
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BMMatrix: Soil Metals Arsenic Barium Cadmium Chromium	•	0.2' ample Depth sample Type Result 5.3 0.1 9.	0.0-1.0 FT E: Field Duplica Detection Limit 0.037 0.057 0.053	Units MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 1: Qua Lab	2/12/9 ifiers Da
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BM Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	•	0.2' ample Depth sample Type Result 5.3 0.1' 9.6	0: 0.0-1.0 FT Detection Limit 0: 0.037 0.057 0.053 0.056	Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 1: Qua Lab B EN	2/12/9 lifiers Da
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BMMatrix: Soil Metals Arsenic Barium Cadmium Chromium Lead Mercury	•	0.2's ample Depth Sample Type Result 5.3 0.1 9.6 0.0	0: 0.0-1.0 FT Detection Limit 0 0.37 0 0.05 0 0.05 0 0.10 4 0.00	Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 1: Qua Lab B EN U	2/12/9 lifiers Da
Silver Sample ID: FH000-SB20312-12-96/0.0-1.0 (BM Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	•	0.2' ample Depth sample Type Result 5.3 0.1' 9.6	0.0-1.0 FT E: Field Duplica Detection Limit 0 0.37 0.05 7 0.05 3 0.05 6 0.16 4 0.04 4 0.34	Units MG/KG Collected: 1: Qual Lab B EN U	2/12/9 lifiers	

ample ID: FH000-SB135/01-14-97/0.0-1.0 (BKSB135)	Sample Depth:			Sallanda di Odio	4/07
Matrix: Soil	Field Sample Type:			Collected: 01/1	
Metals	Result	Detection Limit	Units	Qualific Lab	Data
Arsenic	2.7	0.36	MG/KG		
Barium	15.4	0. 09	MG/KG	•	J
Cadmium	0.17	0.04	MG/KG	B*	J
Chromium	6.1	0. 09	MG/KG		
Lead	2.5	0.15	MG/KG	•	J
Mercury	0.04	0. 04	MG/KG	U	U
Selenium	1.5	1.5	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB136/01-14-97/5.0-5.5 (BKSB136)	Sample Depth:	5.0-5.5 FT			
Matrix: Soil	Field Sample Type:			Collected: 01/	14/97
		Detection		Qualif	iers
Metals	Result	Limit	Units	Lab	Data
Arsenic	4.3	0.38	MG/KG		
Barium	14.8	0.09	MG/KG	•	J
Cadmium	0.2	0.05	MG/KG	B*	J
Chromium	8.3	0.09	MG/KG		
Lead	3	0.16	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22		MG/KG	U	U
Sample ID: FH000-SB137/01-14-97/9.0-9.5 (BKSB137)	Sample Depth:				
Matrix: Soil	Field Sample Type			Collected: 01	/14/97
IVALUE.		Detection		Quali	fiers
Metals	Result	Limit	Units	Lab	Data
Arsenic	8.2				
Barium	7.8	0.09		*	J
Cadmium	0.18	0.04		B*	J
Chromium	8.1	0.09			
Lead	2.3	0.15	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	L
Selenium	0.31	0.31	MG/KG	UWN	F
Silver	0.21	0.21	MG/KG	U	ι
Sample ID: FH000-SB138/01-14-97/14.0-14.5 (BKSB138)	Sample Depth	: 14.0-14.5 FT	Γ		
Matrix: Soil	Field Sample Type			Collected: 0	
		Detection			lifiers
Metals	Result	Limit	Units	Lab	Da
Arsenic	9.:				
Barium	12.:			•	•
	0.2			B*	,
Cadmium			9 MG/KG		
Cadmium Chromium	11.				
	11. 4.	1 0.10	6 MG/KG	•	
Chromium	11. 4. 0.0	1 0.10 4 0.0	6 MG/KG 4 MG/KG	U	
Chromium Lead	11. 4.	1 0.10 4 0.0	6 MG/KG 4 MG/KG		• • •

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB139/01-14-97/16.5-17.0 (BKSB139)

Sample Depth: 16.5-17.0 FT

Matrix: Soil	in the second of				14/97
Metals	Result	Detection Limit	Units	Qualifi Lab	iers Data
Arsenic	7.6	0.37	MG/KG		
Barium	7.3	0. 09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	8.4	0.09	MG/KG		
Lead	3.6	0.16	MG/KG	•	j
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

FH-BKG Fort Hood Background

mple ID: FH000-SB140/01-15-97/0.0-1.0 (BKSB140)	Sample Depth:				
Matrix: Soil	Field Sample Type:	Grab		Collected: 01/1	
Metals	Result	Detection Limit	Units	Qualific Lab	ers Data
Arsenic	4.8	0.41	MG/KG		
Barium	108	0.10	MG/KG	•	J
Cadmium	0.79	0. 05	MG/KG	•	J
Chromium	16.1	0.10	MG/KG		
Lead	33.2	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U
ample ID: FH000-SB141/01-15-97/4.0-5.0 (BKSB141)	Sample Depth:	4 0-5.0 FT			
Matrix: Soil	Field Sample Type:			Collected: 01/	15/97
Matrix. Con	. rold dampio type.	Detection		Qualif	iers
Metals	Resuit	Limit	Units	Lab	Dat
Arsenic	5.6	0.43	MG/KG		
Barium	127	0.10	MG/KG	•	J
Cadmium	0.45	0.05	MG/KG	B*	
Chromium	23.6	0.10	MG/KG		
Lead	12.1	0.18	MG/KG	•	
Mercury	0.04	0.04	MG/KG	U	ŧ
S <u>elenium</u>	1.8	1.8	MG/KG	UN	F
Silver	0.25	0.25	MG/KG	U	ι
ample ID: FH000-SB142/01-15-97/9.0-10.0 (BKSB142)	Sample Depth:	9.0-10.0 FT			
Matrix: Soil	Field Sample Type			Collected: 01	/15/9
		Detection		Quali	fiers
Metals	Result	Limit	Units	Lab	Da
Arsenic	3.8	0.44			
Barium	63	0.11	MG/KG	*	
Cadmium	0.29	0.05	MG/KG	B*	
Chromium	8.4	0.11	MG/KG		
Lead	5	i 0.19	MG/KG	•	
Mercury	0.04	0.04	MG/KG	U	
Selenium	1.9	1.9	MG/KG	UWN	
Selenium	1.3			U	
Silver	0.25	0.25	MG/KG	J	
Silver	0.25	0.25 : 14.5-15.0 F1		J	
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143)	0.25	: 14.5-15.0 FT		Collected: 0	1/15/9
Silver	0.25 Sample Depth	: 14.5-15.0 FT		Collected: 0	1/15/9 lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143)	0.25 Sample Depth	: 14.5-15.0 FT	Units	Collected: 0 Qual	
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil	0.25 Sample Depth Field Sample Type Result	: 14.5-15.0 FT :: Grab Detection Limit 3 0.41	Units MG/KG	Collected: 0 Qual	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals	0.25 Sample Depth Field Sample Type Result 3.4	: 14.5-15.0 FT :: Grab Detection Limit 3 0.41 3 0.10	Units MG/KG MG/KG	Collected: 0 Qual Lab	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals Arsenic	0.25 Sample Depth Field Sample Type Result 3.0 39.0	: 14.5-15.0 FT :: Grab Detection Limit 3 0.41 3 0.10 7 0.05	Units MG/KG MG/KG MG/KG	Collected: 0 Qual Lab	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals Arsenic Barium	0.25 Sample Depth Field Sample Type Result 3.9 39.2 12.1	: 14.5-15.0 FT :: Grab Detection Limit 3	Units MG/KG MG/KG MG/KG MG/KG	Collected: 0 Qual Lab	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals Arsenic Barium Cadmium	0.25 Sample Depth Field Sample Type Result 3.0 39.0	: 14.5-15.0 FT :: Grab Detection Limit 3	Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 0 Qual Lab B*	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals Arsenic Barium Cadmium Chromium	0.25 Sample Depth Field Sample Type Result 3.9 39.2 12.1	: 14.5-15.0 FT :: Grab Detection Limit 3	Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 0' Qual Lab B* U	lifiers
Silver Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143) Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	0.25 Sample Depth Field Sample Type Result 3.1 39.0 0.2 12.0	: 14.5-15.0 FT :: Grab Detection Limit 3	Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 0' Qual Lab B* U	lifiers

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB144/01-15-97/19.0-19.3 (BKSB144)

Sample Depth: 19.0-19.3 FT

Matrix: Soil	Field Sample Type: Grab				
Metals	Result	Detection Limit	Units	Qualifi Lab	iers Data
Arsenic	3.7	0.37	MG/KG		
Barium	36.1	0. 09	MG/KG	•	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	6.5	0.09	MG/KG		
Lead	4	0.16	MG/KG	•	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	u	U

ample ID: FH000-SB12712-13-96/0.0-1.0 (BKSB127)	Sample Depth:			O-H4-4-4-4-	12106
Matrix: Soil	Field Sample Type:			Collected: 12/	
Metais	Result_	Detection Limit	Units	Qualifi Lab	ers Data
Arsenic	1.9	0.36	MG/KG		
Barium	18.8	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	3.7	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	j
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB12812-13-96/4.0-6.0 (BKSB128)	Sample Depth:				
Matrix: Soil	Field Sample Type:			Collected: 12	/13/96
IVIZUIX. Soil	riola dampio vypa-	Detection		Quali	fiers
Metals	Result	Limit	Units	Lab	Data
Arsenic	3.6	0.38	MG/KG		
Barium	36.3	0.09	MG/KG		
Cadmium	0.05	0. 05	MG/KG	U	U
Chromium	8.5	0. 09	MG/KG		
Lead	7.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG		
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB12912-13-96/10.0-11.0 (BKSB129)	Sample Depth:	10.0-11.0 FT			
Matrix: Soil	Field Sample Type:			Collected: 12	2/13/96
		Detection			ifiers
Metals	Result	Limit	Units	<u>Lab</u>	Data
Arsenic	2.6		MG/KG		
Barium	26.3	0. 09	MG/KG		
Cadmium	0.04	0.04		U	ι
Chromium	4.6	0.09	MG/KG		
			14100110		
Lead	4.1			EN	J
Lead Mercury	4.1 0.04	0.15	MG/KG	EN U	
		0.15 0.04	MG/KG MG/KG		Į
Mercury	0.04	0.15 0.04 0.33	MG/KG MG/KG MG/KG	U	l l
Mercury Selenium Silver	0.04 0.33 0.21	0.15 0.04 0.33 0.21	MG/KG MG/KG MG/KG MG/KG	U U	l l
Mercury Selenium	0.04 0.33 0.21	0.15 0.04 0.33 0.21 15.0-16.0 FT	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	ા ા 2/13/9
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil	0.04 0.33 0.21 Sample Depth Field Sample Type	0.15 0.04 0.33 0.21 : 15.0-16.0 FT	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	2/13/9
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130)	0.04 0.33 0.21 Sample Depth Field Sample Type Result	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1 Qua Lab	lifiers
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil	0.04 0.33 0.21 Sample Depth Field Sample Type Result	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	2/13/9
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals	0.04 0.33 0.21 Sample Depth Field Sample Type Result	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35	MG/KG MG/KG MG/KG MG/KG MG/KG Units MG/KG MG/KG	U U U Collected: 1 Qua Lab	2/13/9
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals Arsenic	0.04 0.33 0.21 Sample Depth Field Sample Type Result	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35 0.06	MG/KG	U U U Collected: 1 Qua Lab B	2/13/9 alifiers
Mercury Selenium Silver Sample iD: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals Arsenic Barium	0.04 0.33 0.21 Sample Depth Field Sample Type Result	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35 1 0.06 7 0.00	MG/KG	U U U Collected: 1 Qua Lab B	2/13/9 alifiers
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals Arsenic Barium Cadmium Chromium	0.04 0.33 0.21 Sample Depth Field Sample Type Result 8.1	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35 0.06 0.06	MG/KG MG/KG MG/KG MG/KG MG/KG Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1 Qua Lab B	2/13/9 alifiers
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	0.04 0.33 0.21 Sample Depth Field Sample Type Result 8.1 0.00	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35 0.06 0.06 0.06	MG/KG	U U Collected: 1 Qua Lab B	2/13/9 alifiers Da
Mercury Selenium Silver Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130) Matrix: Soil Metals Arsenic Barium Cadmium Chromium	0.04 0.33 0.21 Sample Depth Field Sample Type Result 8.1 0.01	0.15 0.04 0.33 0.21 15.0-16.0 FT Grab Detection Limit 0.35 0.06 0.06 0.06 0.07	MG/KG MG/KG MG/KG MG/KG Units MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	Collected: 1 Qua Lab B B EN U	2/13/9 alifiers Da

FH-BKG Fort Hood Background

iample ID: FH000-SB13112-13-96/20.0-21.0	(BKSB131)	Sample Depth:	20.0-21.0 FT			
Matrix: Soil		Field Sample Type:	Grab		Collected: 12/	13/96
Metais		Result	Detection Limit	Units	Qualifi Lab	ers Data
Arsenic		5.3	0.38	MG/KG		
Barium		65.9	0.09	MG/KG		
Cadmium		0.15	0.05	MG/KG	В	
Chromium		7.7	0.09	MG/KG		
Lead		10.1	0.16	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	U	U
Selenium		0.34	0.34	MG/KG	U	U
Silver		0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB13212-13-96/25.0-26.0	(BKSB132)	Sample Depth:	25.0-26.0 FT			
Matrix: Soil	(,	Field Sample Type:			Collected: 12	/13/96
			Detection		Qualit	iers
Metais		Result	Limit	Units	Lab	Data
Arsenic		4.2	0.37	MG/KG		
Barium		41.7	0.09	MG/KG		
Cadmium		0.04	0.04	MG/KG	U	U
Chromium		5.9	0.09	MG/KG		
L ead		7.8	0.16	MG/KG	EN	J
Mercury		0.04	0.04	MG/KG	υ	U
Selenium		0.34	0.34	MG/KG	U	u
Silver		0.21	0.21	MG/KG	U	u
Sample ID: FH000-SB13312-13-96/30.0-31.0	(BKSB133)	Sample Depth:				
Matrix: Soil	(5/105/00)	Field Sample Type:			Collected: 12	2/13/96
THE D. CO.		, tota outriple 1,7pm	Detection		Qual	ifiers
Metais		Result	Limit	Units	Lab	Dat
A rsen ic		3.2	0.39	MG/KG		
Barium		68.6	0. 09	MG/KG		
Cadmium		0.11	0. 05	MG/KG	В	
Chromium		4.9	0.09	MG/KG		
Lead						
		6.3		MG/KG	EN	
Mercury			0.17	MG/KG MG/KG	EN U	
Mercury Selenium		6.3	0.17 0.04	MG/KG		l
•		6.3 0.04	0.17 0.04 0.35	MG/KG MG/KG	U	l
Selenium	(BKSB134)	6.3 0.04 0.35 0.22	0.17 0.04 0.35	MG/KG MG/KG MG/KG MG/KG	U U U	J L L
Selenium Silver	(BKSB134)	6.3 0.04 0.35 0.22	0.17 0.04 0.35 0.22 34.0-34.5 FT	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	ા ા 2/13/9
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	2/13/9
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	2/13/9
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36	MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1	2/13/9
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36	MG/KG MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1 Qua Lab	2/13/9
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium Cadmium	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9 20.0	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36 0.09	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1 Qua Lab	2/13/9 alifiers
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium Cadmium Chromium	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9 20.4	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36 0.09 0.04 0.09	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	U U Collected: 1 Qua Lab	l l 2/13/9 llif iers Da
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9 20.0 1.1	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36 0.09 0.09 0.015	MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	U U U Collected: 1 Qua Lab	l (2/13/9 2/13/9 Da
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead Mercury	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9 20.0 0.00 1.2	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36 0.09 0.04 0.09 0.05 0.04	MG/KG	U U Collected: 1 Qua Lab B EN U	l 2/13/9 differs Da
Selenium Silver Sample ID: FH000-SB13412-13-96/34.0-34.5 Matrix: Soil Metals Arsenic Barium Cadmium Chromium Lead	(BKSB134)	6.3 0.04 0.35 0.22 Sample Depth Field Sample Type Result 2.9 20.0 1.1	0.17 0.04 0.35 0.22 34.0-34.5 FT Grab Detection Limit 0.36 0.09 0.04 0.09 0.04 0.09 0.04 0.09 0.04 0.09 0.04	MG/KG	U U Collected: 1 Qua Lab B EN U	2/13/9 alifiers

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20412-13-96/4.0-6.0

Matrix: Soil

(BKSB204)

Sample Depth: 4.0-6.0 FT

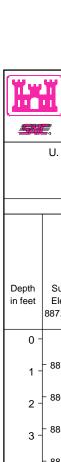
Field Sample Type: Field Duplicate

Collected: 12/13/96

			Qualit	iers	
Metais	Resuit	Detection Limit	Units	Lab	Data
Arsenic	3.2	0.38	MG/KG		
Barium	31.9	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	6.5	0.09	MG/KG		
Lead	7.1	0.16	MG/KG	EN	j
Mercury	0. 04	0. 04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

APPENDIX E

Fort Hood RFI Background Soil Boring Logs



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RCRA Facilities Investigation Fort Hood, Texas

U. S. Army Corp of Engineers Fort Worth District Fort Worth, Texas

Boring FHBKG-SB101

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FHBKG : Background Start Date : 12/10/96 End Date : 12/10/96 Northing Coord. : 3446458.08 m

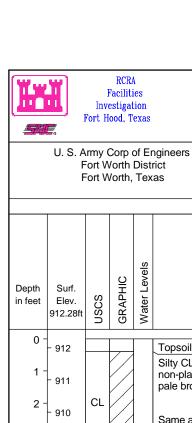
Easting Coord. : 61375.50 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist

Depth to Bedrock : 15.0 feet Depth Drilled Into Rock: 3.5 feet **Borehole Diameter** Sampling Equipment : 4.25" Augers

					Easting Coord. : 61375.50 m UTM 1 Total Depth of Boring : 18.5 feet	14 North	Sampling Equipment : 4.25" Augers : CME Sampler 5' long
Depth in feet	Surf. Elev. 887.80ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -					Topsoil. 0.0-0.5' bgs.; weathered tan limestone.	No sam	ple recovery.
1 -	- 887				CLAY; weathered limestone fragments; damp; soft; moderately plastic; 10YR5/4 yellowish brown.		
2 -	- 886 - 885	CL			Same as above; dry.	Sample	BKSB101 collected 2.0-2.5' bgs.
3	- 884				Same as above; dry; more weathered limestone.	Descrip	tion from soil cuttings.
4 - 5 -	- 883				CLAY, fat; fewer fragments; damp; firm; highly plastic; mottled 10YR6/6 brownish yellow and 2.5Y7/1 light gray.	Sample	BKSB102 collected 4.0-4.7' bgs.
6 -	- 882				Same CLAY as above; more silty; interbedded with	Descrip	tion from soil cuttings.
7 -	- 881	СН			weathered limestone; dry.		
8 -	- 880						
9 -	- 879						
10 -	- 878 -				Same as above; dry.		
11 -	- 877				Silty CLAY; dry; firm; non-plastic; 10YR6/6 brownish yellow.	Sample	BKSB103 collected 10.5-11.0' bgs.
12 -	- 876	٥.			Same as above; interbedded with tan weathered limestone; dry.		
13 -	- 875	CL					
14 -	- 874						
15 -	- 873				LIMESTONE, weathered; dry; blue-gray.	Descrip	tion from soil cuttings.
16 -	- 872						
17 -	- 871 - 870	LS					
18 -	- 870 - 869				Bottom of Boring @ 18.5' bgs.	Soil cole	ors from Munsell Soil Color Chart, 1992 Revised Edition
19 -	- 868				- J		
20 -	000		l			.L	



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10-20-1999

RCRA Facilities Boring FHBKG-SB102 Investigation Fort Hood, Texas

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FHBKG : Background Start Date : 12/12/96 End Date : 12/12/96 Northing Coord. : 3446503.40 m

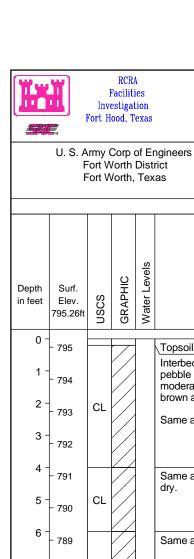
Easting Coord. : 613980.64 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 16.0 feet Depth Drilled Into Rock: 3.5 feet Borehole Diameter : 8 inches

Sampling Equipment : 4.25" Augers

					Total Depth of Boring : 19.5 feet		: CME Sampler 5' long
Depth in feet	Surf. Elev. 912.28ft	nscs	GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -	- 912				Topsoil. 0.0-0.4' bgs.	Comple	BKSB121, duplicate BKSB202, and split sample
1 -	- 912				Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 10YR5/3 brown and 10YR8/2 very pale brown.		2 collected 0.0-0.5' bgs.
2 -	- 910	CL			Same as above; dry.		
3 -	- 909					Descript	ion from soil cuttings.
4 -	- 908				LIMESTONE, weathered, tan; and Silty Clay interbeds; dry.		
5 -	- 907	CL					
6 -	- 906				Zones of limestone and highly indurated silty clay (weathered limestone?); shell fragments; roots; dry; very hard; 2.5Y8/2 pale yellow.		
7 - 8 -	- 905				Tialu, 2.516/2 pale yellow.		
9 -	- 904 - 903				Same as above; dry.		
10 -	- 902						
11 -	- 901	CL			Same as above; dry.		
12 -	- 900						
13 -	- 899					Descript	ion from soil cuttings.
14 -	- 898					Sample	BKSB122 collected 14.0-14.5' bgs.
15 - 16 -	- 897				Same as above; dry.		
17 -	- 896				LIMESTONE, weathered; dry; blue-gray.		
18 -	- 895 - 894	LS			Same as above; dry.		
19 -	- 893				Same as above; dry.	Sample	BKSB123 collected 19.0-19.5' bgs.
20 -					Bottom of Boring @ 19.5' bgs.	Soil colo	ors from Munsell Soil Color Chart, 1992 Revised Edition.



RCRA

Boring FHBKG-SB103

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FHBKG : Background Start Date : 12/10/96 End Date : 12/10/96 Northing Coord. : 3447405.80 m

Easting Coord. : 606690.49 m UTM 14 North

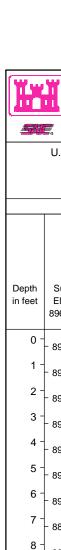
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 15.0 feet Depth Drilled Into Rock: 2.0 feet Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

						Total Depth of Boring : 17.0 feet	Boring : 17.0 feet		
Depth in feet	Surf. Elev. 795.26ft	nscs	GRAPHIC	Water Levels		DESCRIPTION		REMARKS	
0 -	- 795				Topsoil. 0.0-0.2' b	gs.; weathered tan limestone.	Sample	e BKSB104 collected 0.0-0.5' bgs.	
1 -	- 794				pebble sized angumoderately plastic	and pebbly CLAY; 40% coarse sand to ular to subrounded fragments; dry; ;; thin layers of 10YR8/4 very pale			
2 -	- 793	CL			brown and 10YR3	2/2 very dark grayish brown.			
3 -	- 792					Same as above; n	io peobles; ary.	Descrip	otion from soil cuttings.
4 -	- 791				Same as above; v	veathered, tan limestone fragments;	Sample	e BKSB105 collected 4.0-4.5' bgs.	
5 -	- 790	CL			G.y.				
6 -	- 789				Same as above; in	nterbeds of limestone; dry.			
7 -	- 788				Same as above; d	lry.			
8 -	- 787								
9 -	- 786	0.			Same as above; d	lry.	Sample	e BKSB106 collected 9.0-9.5' bgs.	
10 - 11 -	- 785	CL			Same as above:	except more medium to coarse sand;			
12 -	- 784				dry; soft; non-plas	tic.			
13 -	- 783 				Same as above; d	lry.	Descrip	otion from soil cuttings.	
14 -	- 782 				O'll Ol AV				
15 -	- 781 - - 780	CL	11,1		moderately plastic 10YR6/4 light yell		Sample	e BKSB107 collected 14.0-15.0' bgs.	
16 -	- 780 - 779	LS			LIMESTONE, wea	athered; dry; blue-gray.			
17 -	- 778		<u> </u>		Bottom of Boring	@ 17.0' bgs.			
18 -	- 777								
19 -	- 776								
20 -	_				<u> </u>		Soil col	lors from Munsell Soil Color Chart, 1992 Revised Edition	



U. S. Army Corp of Engineers Fort Worth District Fort Worth, Texas

Boring FHBKG-SB104

(Page 1 of 1)

FHBKG : Background Start Date : 12/11/96 End Date : 12/11/96 Northing Coord. : 3447780.16 m

Easting Coord. : 613523.75 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist

Depth to Bedrock : 24.0 feet Depth Drilled Into Rock: NA Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

					Total Depth of Boring : 24.0 feet	: CME Sampler 5' long
Depth in feet	Surf. Elev. 896.29	nscs	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0 -	- 896				Topsoil. 0.0-1.0' bgs.; weathered tan limestone.	Sample BKSB108 collected 0.0-1.0' bgs.
1 - 2 -	- 895 - 894				Silty CLAY; trace organics; weathered limestone fragments; damp; soft; low plasticity; 2.5Y7/6 yellow.	
3 -	- 893				Same as above.	Description from soil cuttings.
4 - 5 -	- 892 -	CL			Same as above; no organics; dry; 10YR7/8 yellow mottle.	Sample BKSB109 collected 4.0-5.0' bgs.
6 -	- 891 - 890				Same as above; slightly more silty; dry; hard; brittle.	
7 -	- 889					Description from soil cuttings.
8 - 9 -	- 888				LINESTONE	Description from soil cuttings. Hard drilling.
10 -	- 887 - 886	LS			LIMESTONE, weathered; tan. weathered limestone as above.	
11 -	- 885				Silty CLAY as above; dry.	Sample BKSB110 collected 11.0-11.5' bgs.
12 - 13 -	- 884	CL			Same as above; dry.	Geotechnical sample collected 12.0-13.0' bgs.
14 -	- 883 - 882				Silty CLAY and weathered LIMESTONE interbeds.	
15 -	- 881	CL				Description from soil cuttings.
16 - 17 -	- 880					
18 -	- 879 - 878	CL			Silty CLAY as above; dry.	Sample BKSB111 collected 18.0-18.5' bgs.
19 -	- 877				Silty CLAY and weathered LIMESTONE interbeds.	1
20 - 21 -	- 876					Description from soil cuttings.
22 -	- 875 - 874	CL				2000 puon nom oon outings.
23 -	873				Same as above; dry. Blue-gray weathered limestone fragments; dry.	
24 -	- 872	LS			Bottom of Boring at 24.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edit
25 -			1111111			,I



Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB105

(Page 1 of 1)

FHBKG : Background Start Date : 12/11/96 End Date : 12/11/96 Northing Coord. : Not Easting Coord. : Surveyed

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59 Type of Drill Rig : Hollow Stem Auger

: Jeff DeVaughn Geologist Depth to Bedrock : 24.0 feet Depth Drilled Into Rock: NA Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

						Total Depth of Boring : 24.0 feet	: CME Sampler 5' long		
Depth in feet	Surf. Elev. NS	nscs	GRAPHIC	Water Levels		DESCRIPTION		REMARKS	
0 -	0	GP	• . •		GRAVEL (graded	area)			
	1 2	GP			Silty CLAY; weath	nered limestone fragments; dry; firm; 1/4 light yellowish brown.	Sample	BKSB112 collected 1.0-1.5' bgs.	
	3	CL			Same as above; d	lry.	Descrip	otion from soil cuttings.	
	4 5	СН			yellowish brown a	n; highly plastic; mottled 2.5Y6/4 light nd 10YR6/6 brownish yellow.	Sample	BKSB113 collected 4.0-5.0' bgs.	
	6 _				light yellowish bro	MESTONE interbeds; dry; firm; 2.5Y6/4 wn.			
	7 8						Descrip	otion from soil cuttings.	
	9 10	CL			Same as above; d	ln/			
		CL			Same as above, u	uy.			
	11 12				Same as above; d	lry; moderately plastic.	Sample	BKSB114 collected 11.0-12.0' bgs.	
	13				Same as above; d	lry.	Descrip	otion from soil cuttings.	
14 -	-14								
15 -	15	CL				nore silt; dry; hard; brittle; non-plastic.	Sample	BKSB115 collected 15.0-15.5' bgs.	
16 -	16				Same as above w	ith weathered limestone interbeds.			
17 -	-17								
	-18						Descrip	otion from soil cuttings.	
	-19	CL							
	20 21								
	-21 22				Same as above; d	lrv.			
	23					,	Sample	e BKSB116 collected 22.0-22.5' bgs.	
	24					red limestone; dry; hard drilling to 24.0'.	Soil col	lors from Munsell Soil Color Chart, 1992 Revised Editic	
		LS			Bottom of Boring a	at 24.0' bgs.		incommunity 1992 Novised Edition	
25 -	<u> </u>								



Fort Worth, Texas

U. S. Army Corp of Engineers Fort Worth District

Boring FHBKG-SB106

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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Danth of Paring : 25 5 feat

Drilling Company : Terra-Mar

Borehole Diameter

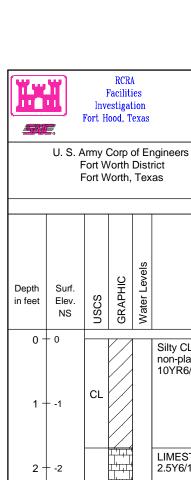
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger Geologist : Jeff DeVaughn Depth to Bedrock : 25.5 feet Depth Drilled Into Rock: NA

: 8 inches

Sampling Equipment : 4.25" Augers : CME Sampler 5' long

					Total Depth of Boring : 25.5 feet	: CME Sampler 5' long
Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0 - 1 - 2 -	1	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 2.5Y7/6 yellow and 10YR6/6 brownish yellow.	Sample BKSB117 collected 0.0-1.0' bgs.
3 - 4 -	3	OL			Same as above; dry. Same as above with weathered limestone interbeds.	Geotechnical sample collected 3.0-4.0' bgs.
5 - 6 - 7 -		CL			Same as above with trace sand; dry.	Description from soil cuttings.
8 - 9 -	8				Silty SAND, fine; dry; non-plastic; carbonate (HCL fizz);	Sample BKSB118 collected 9.0-9.5' bgs.
10 - 11 - 12 -	11	SM			2.5Y8/4 pale yellow.Same as above; dry.Same as above except color change to 19YR8/2 very	
13 - 14 - 15 -	14				pale brown. Same as above SAND, fine; except no silt.	Sample BKSB119 collected 14.0-14.5' bgs.
16 - 17 - 18 -	16 17	SP			Same as above; dry.	Description from soil cuttings.
19 - 20 -	19 20				SAND, fine; dry; soft; non-carbonate; 2.5Y8/4 pale yellow.	Sample BKSB120 collected 19.0-20.0' bgs.
21 - 22 - 23 -	22	SW			Same as above; dry.	Description from soil cuttings.
24 - 25 -		LS			LIMESTONE, weathered; dry; tan.	
26 - 27 - 28 -	27				Blue-gray weathered limestone; dry. Bottom of Boring at 25.5' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edit
29 - 30 -	29					



RCRA

Facilities

Investigation

Boring FHBKG-SB107

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FHBKG : Background Start Date : 12/12/96 End Date : 12/12/96 Northing Coord. : 3438421.71 m

Easting Coord. : 612222.83 m UTM 14 North Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger : Jeff DeVaughn Geologist Depth to Bedrock : 1.7 feet Depth Drilled Into Rock: 4.3 feet Borehole Diameter : 8 inches

Sampling Equipment : 4.25" Augers

						Total Depth of Boring : 6.0 feet	t		: CME Sampler 5' long
Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels		DESCRIPTION			REMARKS
0 -	- 0				Silty CLAY; weath non-plastic; mottle 10YR6/2 light brow	nered limestone fragments; dry; ed 10YR6/8 brownish yellow and wnish gray.	hard; d	Sample	BKSB124 collected 0.0-1.0' bgs.
1 -	- -1	CL							
2 -	- -2				LIMESTONE, wea 2.5Y6/1 gray.	athered, fossiliferous; Blue-Gra	y;		
3 -	3							Descrip	tion from soil cuttings.
4 -	4	LS			Same as above			Sample	BKSB125 collected 4.0-4.5' bgs.
5 -	- -5							Descrip	tion from soil cuttings.
6 -	- -6				Same as above Bottom of Boring a	at 6.0' bgs.		Sample	BKSB126 collected 5.5-6.0' bgs.
7 -	7								
7 - 8 - 9 -	8							Soil cold	ors from Munsell Soil Color Chart, 1992 Revised Edition
	9								
10 -									



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Fort Worth District

Fort Worth, Texas

Boring FHBKG-SB108

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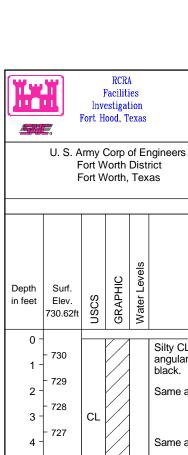
FHBKG : Background
Start Date : 01/14/97
End Date : 01/14/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger Geologist : Jeff DeVaughn Depth to Bedrock : 15.0 feet Depth Drilled Into Rock: 2.0 feet Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

					Total Deptit of Boiling 17.0 leet		: Civile Sampler 5 long			
Depth in feet	Surf. Elev. NS	nscs	GRAPHIC	Water Levels	DESCRIPTION	REMARKS				
0 + 1 + 2 +	1				Topsoil 0.0-0.4' Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 10YR6/8 brownish yellow.	Sample BKSB135 collected 0.0-1.0' bgs.				
3 +	3				Same as above; dry.	Description fro	om soil cuttings.			
5 - 6 -					Same as above; dry; mottled with 2.5Y7/3 pale yellow.	Sample BKSB	3136 collected 5.0-5.5' bgs.			
7 - 8 -		CL			Same as above; dry.	Description fro	om soil cuttings.			
9 -	10				Same as above; dry.	Sample BKSB	3137 collected 9.0-9.5' bgs.			
11 - 12 - 13 -	12				Same as above; dry.	Description fro	om soil cuttings.			
14 - 15 -	15				Same as above; less silty; dry. Same as above; dry. LIMESTONE, weathered; blue-gray.	Sample BKSB	3138 collected 14.0-14.5' bgs.			
16 - 17 - 18 -	17	LS			Same as above; dry. Bottom of Boring at 17.0' bgs.		3139 collected 16.5-17.0' bgs. m Munsell Soil Color Chart, 1992 Revised Edit			
19 - 20 -	19									



Fort Worth District

Fort Worth, Texas

RCRA Facilities Boring FHBKG-SB109 Investigation Fort Hood, Texas

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FHBKG : Background Start Date : 01/15/97 End Date : 01/15/97 Northing Coord. : 3471041.79 m

Easting Coord. : 626015.26 m UTM 14 North

Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher Designation of Drill : Mobile Drill B-59

Type of Drill Rig : Hollow Stem Auger Geologist : Jeff DeVaughn Depth to Bedrock : Not Encountered

Depth Drilled Into Rock: NA Borehole Diameter : 8 inches Sampling Equipment : 4.25" Augers

Depth Surf. in feet Elev. 730.62		GRAPHIC	Water Levels	DESCRIPTION		REMARKS
0 -	" š	5	>	City Ol AV trace rester trace real fragments.	Sample BI	KSB140 collected 0.0-1.0' bgs.
1 - 730 1 - 729 2 -				Silty CLAY; trace roots; trace rock fragments <1cm, angular to subrounded; damp; highly plastic; 5YR2.5/1 black. Same as above; damp.	Sample Bi	NSB140 collected 0.0-1.0 bgs.
728 3 - 727 4 - 726 5 -	CL			Same as above; damp.		on from soil cuttings. KSB141 collected 4.0-5.0' bgs.
6 - 725 7 - 724				Silty CLAY; trace weathered limestone fragments; dry; stiff; non-plastic; 7.5YR6/4 light brown.	-	
8 - 723 9 - 722				Some sand, fine, from 8-9' bgs.	Descriptio	on from soil cuttings.
- 721 10 - - 720 11 - - 719				Same as above; dry. Same as above except rock fragments (mostly weathered limestone) up to 20% of total matrix.	Sample Bi	KSB142 collected 9.0-10.0' bgs.
- 718 13 - 717 14 -				Same as above; dry.	Descriptio	on from soil cuttings.
- 716 15 - 715 16 -	CL			Same as above; with limestone fragments up to 40%; also 10% fine sand; dry.	Sample Bl	KSB143 collected 14.5-15.0' bgs.
17 - 714 17 - 713 18 - 713				Same as above; dry.	Descriptio	on from soil cuttings.
19 - 712 19 - 711 20 - 710				Same as above; dry.	Sample Bl	KSB144 collected 19.0-19.3' bgs.
21 - - 709 22 - - 708				Same as above; dry.	Descriptio	on from soil cuttings.
23 - 707	SM			Silty SAND, fine to medium; moist; soft; moderately plastic; 7.5Y6/8 reddish yellow and 7.5 YR7/1 light gray.	Water in h	nole, attempted sample, no recovery in gravel at 2
706	GP		•	Bottom of boring at 24.0' bgs. GRAVEL,angular;saturated	Soil colors	s from Munsell Soil Color Chart, 1992 Revised Edi



U. S. Army Corp of Engineers Fort Worth District Fort Worth, Texas

Boring FHBKG-SB110

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 FHBKG
 : Background

 Start Date
 : 12/13/96

 End Date
 : 12/13/96

 Northing Coord.
 : 3472081.13 m

Easting Coord. : 626432.83 m UTM 14 North

Total Depth of Boring : 34.5 feet

Drilling Company : Terra-Mar

Driller : Bill Christopher

Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn

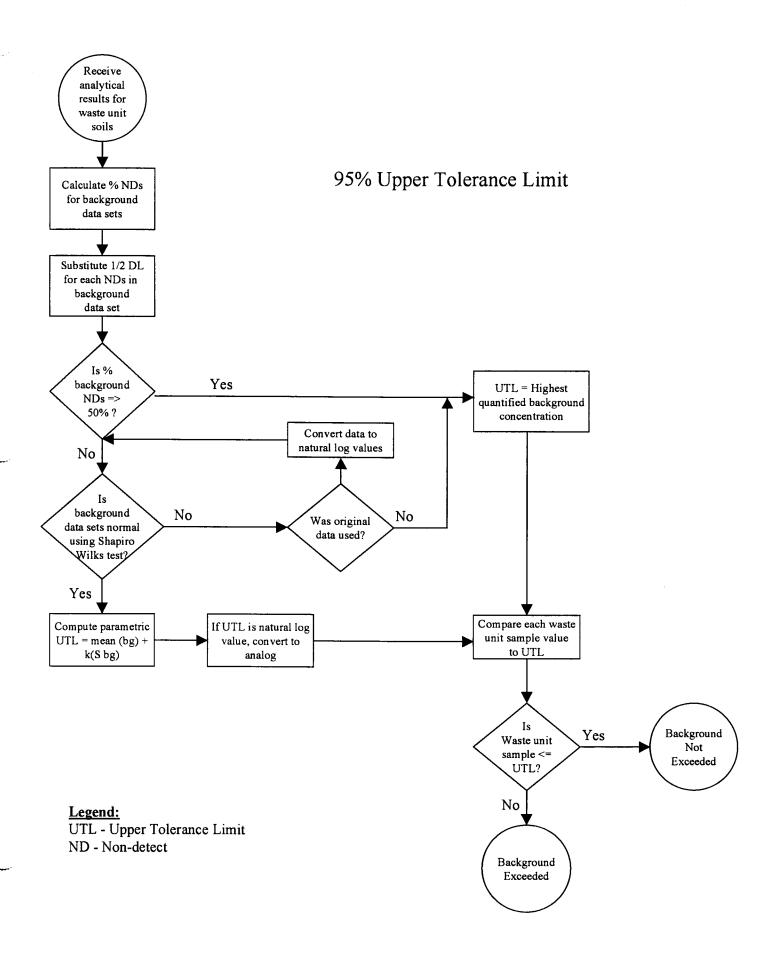
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA

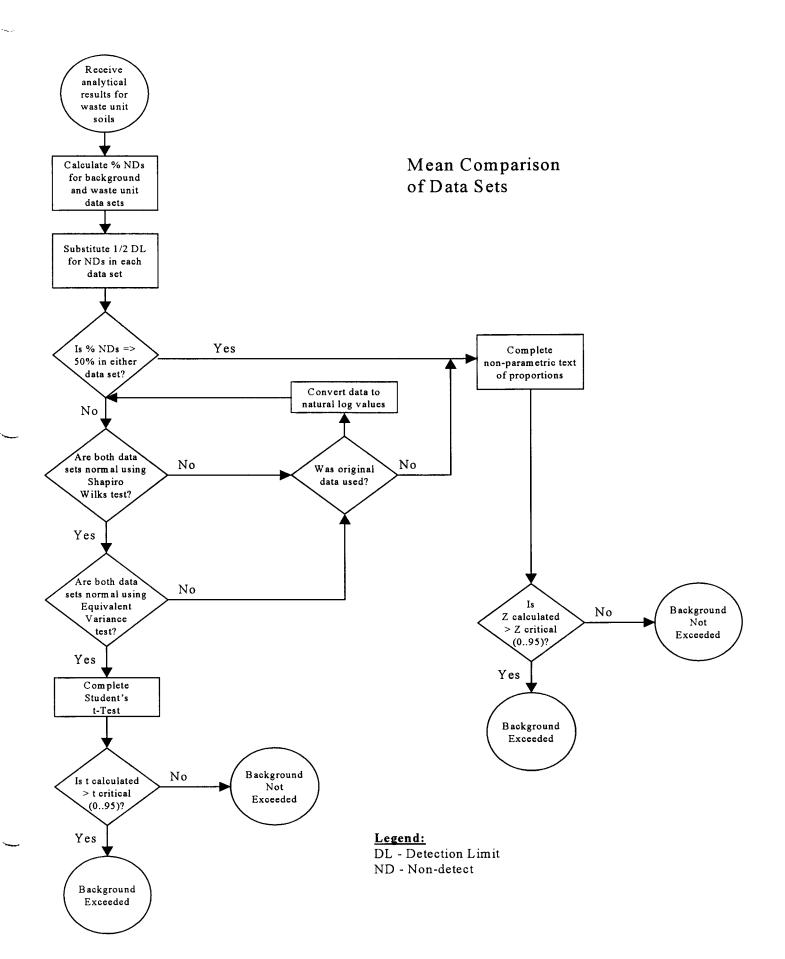
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers

						Total Depth of Boring : 34.5 feet		: CME Sampler 5' long		
Depth Su in feet Ele 729.	nscs	GRAPHIC	Water Levels		DESCRIPTION		REMARKS			
0 - 1 - 729 2 - 728	3	SM			SAND, fine to med 7.5YR5/6 strong b Same as above; d		Sample	e BKSB127 collected 0.0-1.0' bgs.		
4 - 726 5 - 726 6 - 724	5 4				Clayey SAND; dar red. Same as above; d	mp; firm; moderately plastic; 2.5YR4/6 amp.	Sample	e BKSB128 collected 4.0-6.0' bgs.		
7 - 723 8 - 722 9 - 721	2				Same as above; d	amp.		chnical sample collected 8.0-9.0' bgs.		
11 - 719 12 - 718 13 - 717 14 - 718	3 7 6	sc			Same as above; d	lightly less clay; dry. lry. ess clay; dry; color change 5YR5/6	Sample	e BKSB129 collected 10.0-11.0' bgs.		
16 - 714 17 - 713 18 - 711 19 - 711	3 2 1				yellowish red. Same as above; d Same as above; d Same as above; m	ry; nore clay; dry.	Sample	e BKSB130 collected 15.0-16.0' bgs.		
20 - 710 21 - 708 22 - 708 23 - 707	9 3 7					•	Sample	e BKSB131 collected 20.0-21.0' bgs.		
24 - 706 25 - 705 26 - 702 27 - 702 28 - 702	4 3	CL			Same as above; d		Sample	e BKSB132 collected 25.0-26.0' bgs.		
29 - 707 30 - 700 31 - 699 32 - 698	0 9 8					vith more silt; moist; softer. except very silty; damp; soft.	Sample	e BKSB133 collected 30.0-31.0' bgs.		
33 - 696 34 - 696 35 - 692 36 - 693	6 5 4	SM GW			saturated; non-pla		Sample	e BKSB134 collected 34.0-34.5' bgs.		
37 - 692 38 - 692 39 - 692 40 - 690	2				Doubling 6		Soil col	lors from Munsell Soil Color Chart, 1992 Revised Editi		

APPENDIX F

Statistical Calculations





Formulas for Shapiro Wilk or W test

1. Compute the denominator d of the W test statistic, using the n data;

$$d=\sum_{i}^{n}(x_{i}-\bar{x})^{2}$$

2. Order the n data form smallest to largest to obtain the sample order statistics

$$x_1 \leq x_2 \leq x_3 \leq etc$$

3. Compute k, where k=n/2 if n is even or

$$k=(n-1)/2$$
 if n is odd

- 4. Turn to Table A6 in Statistical Methods for Environmental Pollution Monitoring, by Richard Gilbert, and for the observed n find the coefficients $a_1, a_2, ..., a_k$
- 5. Then compute W

$$W = 1/d\{\sum a_{l}(x_{ln-i+1} - x_{li})\}^{2}$$

6. Reject H0 at the α significance level if W is less than the quantile given in Table A7 of Statistical Methods for Environmental Pollution Monitoring, by Richard Gilbert.

This procedure is used on the logrithms of data to test if distribution is lognormal.

95% UTL Calculations

- 1. Determine distribution. If normal use the data as is and 1/2 of the value for nondetects. If lognormal distribution calculate the 95% UTL on the log values.
- 2. Find the mean of the data set.
- 3. Find the standard deviation of data set
- 4. Based on the n of the data set look up the K value from Statistical Methods for Environmental Pollution Monitoring, by Richard Gilbert, Table A3.
- 5. Calculate the 95% UTL =mean+K(standard deviation)

For lognormal distribution, need to take the exponent of the 95%UTL of the log.

Methodology for the Mann-Whitney Test (a.k.a. Wilcoxon Test)

1. Perform combined ranking of SWMU data set and background data set. (See attached ranking results.)

Compound A - Samples collected at SWMU

Compound B - Background samples

2. Calculate the sampling distribution of U.

$$U = mn_2 + \frac{m(n_1+1)}{2} - R_1$$

where,

 n_1 and n_2 = sizes of the two data sets

 R_1 = Sum of the ranks assigned to the values of the first sample.

3. Calculate the mean (μ_U) and the standard deviation (σ_U) of U.

$$\mu U = \frac{n_1 n_2}{2} \qquad \sigma U = \sqrt{\frac{n_1 n_2 (n_1 + n_2 + 1)}{12}}$$

4. Determine the statistical value z.

$$z = \frac{U - \mu U}{\sigma U}$$

5. Compare z to z_{α}

Using $z_{0.05} = 1.645$, if $|z| > z_{0.05}$, the SWMU concentrations (Compound A) are significantly different than the background concentrations (Compound B).

95% UTLs

Background 95% U	Mercur		Arsenic		Barium	
	Resuit (x)	Quai	Result (x)	Resuit	Quai	Ln(x)
BKSB101	0.04IU	Juan	3	21.3		3.05870707
BKSB1021	0. 04 U		21	81		2.07944154
BKSB103	0. 04 U		9.11	14.7	5	2.68784749
BK\$B105	0. 04 U		4.3	23.4	J	3.15273602
BKSB106	0. 04 U		4.4	43.7		3.77734810
BKSB1071	0.04IU					
BK\$B109	0. 04 U		3.5	155	J	5.04342511
BKSB110	0. 04 U		4.81	24.1		3.1822118
BKSB111	0. 04 U		5.21	7.2	J	1.97408102
BKSB113	0. 04 U		5.71	20.5	3	3.02042481
BKSB114	0. 041U		5.21	25.21	J	3.22684399
BKSB115	0.04 U		5.31	10.6	J	2.3608540
BKSB116	0. 04 U		11.6	4.9		1.5892352
BKSB118	0. 04 U		2.61	4.4	1	1.4816045
BKSB119	0.04 U		0.66	3		1.0986122
BKSB120	0. 04 U		0.441	2		0.6931471
BKSB1221	0. 04 U		3.21	6.1		1.8082887
BKSB123	0.0410		3.81	5.5		1.7047480
BKSB125	0.0411		3.21	18.1		2.8959119
BKSB126	0.041		2.5	5.4		1.6863989
BKSB128	0.04		3.6	3 6.3		3.5918177
BK\$B129	0.04 [J	2.6	26.3		3.2695689
BK\$B130	0.0418		11	8.1		2.0918640
BKSB131	0.041		5.31	65.9	1	4.1881384
BKSB1321	0.04(0		4.21	41.7	,	3.7305011
BK\$B133	0.0410		3.21	68.6	il	4.228292
BK\$B134	0.041		2.91	20.1		3.000719
BKSB136	0.04		4.31	14.8	313	2.694627
BKSB137	0.04		8.21	7,8	3 1	2.054123
BKSB1381	0.04		9.21	12.3	2 J	2.501435
BKSB139	0.04		7.6		3 1	1.987874
BKSB141	0.04		5.6	12	7 3	4.844187
BKSB142	0.04		3.81		3 J	4.143134
BKSB143	0.041		3.8	39.		3.671224
BKSB144	0.04		3.71		111	3.586292
BKSB104	0.04		6.2		21J	3.339321
BKSB108	0.04		6		411	4.282206
BKSB112	0.04		1.6		611	1.887069
BKSB117	0.04		4.4		9 J	3.328626
BKSB121	0.04		4.1		4	3.1780
BKSB124	0.04		6	19		2.960103
BKSB127	0.04		1.9			2.9338
B KSB 135	0.04		2.7		.4\J	2.73436
BKSB140	0.04		4.8)8 J	4.68213
%nondetects=	0.04					0
Distribution	D 0.04		N			L
Mean	0.04		4.353488372	30.1906976	57	2.91700
std dev	0.04		2.299203676		_	1.01859
n	44	+	43	 	43	
K	2.097	 	2.102	I		1 2
		•			1	

95% UTLs

smp_idi		Cadmiu	m.				Chromium	
	D 10 ()	0.1.				Darrelo (m)	Over	1 (.)
BKSB101	Result (x)	Qual 1/	2 nondetects	<u></u>		Result (x) 5.11.	Quai	Ln(x)
BKSB1011	0.121			-2.1202		10.3		1.629240
	0.051			-2.9957				2.3321438
BKSB103	0. 05 U			-3.6888		10.1		2.3125354
BKSB105	0.11			-2.2072		4		1.3862943
BKSB106	0.16		0.16			7.6		2.0281482
BKSB107	0.351			-1.0498		5.1		1.629240
BKSB1091	0.07		0. 07			6.5		1.8718021
BK\$B110	0.06		0. 06			16.6		2.8094026
BKSB111	0.05			-2.995		6.2		1.8245492
BKSB1131	0. 071		-	-2.659		8.9		2.1860512
BKSB114	0. 05 U			-3.688		20.3		3.0106201
BKSB1151	0. 061		0.06	-2.813	410717	7.3		1.9878743
BKSB116	0.21			-1.609		2.7		0.9932517
BKSB118	0.19		0.19	-1.660	731207	2.2	J	0.788457
BKSB119	0. 06		0. 0 6	-2.813	410717	2.1		0.741937.
BKSB1201	0. 04 U		0. 0 2	-3.912	023005	0. 93		-0.072570
BKSB122	0. 06		0.06	5 -2.813	410717	4.9		1.589235
BKSB123	0.08		0.0	B -2.525	728644	4.3		1.458615
BKSB125	0.11		0.11	1 -2.207	274913	5.1		1.62924
BKSB126	0.06		0.0	6 -2.813	410717	5.5		1.704748
BKSB128	0. 05 L	Ţ Į	0.02	-3.688	879454	8.5		2.140066
BKSB129	0.04 (J	0.0	2 -3.912	023005	4.6		1.526056
BKSB130	0.07		0.0	7 -2.659	260037	1.8	1	0.587786
BKSB131	0.15		0.1	5 -1.89	7119985	7.7	1	2.041220
BKSB132	0.041	J		2 -3.912		5.9) į	1.774952
BKSB1331	0.11		0.1	11 -2.20	7274913	4.9	1	1.589235
BKSB134	0.081		0.0	8 -2.52	728644	1.2	1	0.182321
BK\$B136	0.21				9437912	8.3	1	2.116255
BKSB137	0.18		0.1	8 -1.71	4798428	8.1	1	2.091864
BKSB138	0.21		0.2		0647748	11.	ıi	2.406945
B KSB 139	0.2				9437912	8.4	4	2.12823
BKSB141	0.451		0.4		8507696	23.0	5	3.16124
BKSB1421	0.291		0.2		78743561	8		2.12823
BKSB143	0.27		0.2		0933332	12.		2.50143
BKSB144	0.21				9437912	6.		1.87180
BKSB104		-			7119985		113	1.13140
BKSB108					9437912		9 1	2.55722
BKSB112		11			2023005		4 J	1.38629
BKSB112		` 			4798428		7 J	1.74046
BKSB121					4798428	_		1.84054
BKSB124					7274913		21	1.97408
BK\$B127		T 7					7	1.3083
BKSB127					12023005			1.80828
					71956842		.11	2.77881
BKSB140	0.79		0.	. 79 -0.2	35722334	16		
%nondetects=		0.191489362						0
Distribution		<u> </u>	<u> </u>	L				L 7966
Mean	0.145454545				43338046			1.7866
std dev	0.134759986	<u> </u>		0.9	26564755			0.6806
<u> </u>	44	 			44		44	
K	2.097		<u> </u>		2.097			
UTL	0.428046235	1		1 0	40033475	17.346298	121	3.2139

5% UTLs

Background 95 !							
smp_id!		Lead	Sele	nium	Silver		
,) (m)	Ouai Ln(x)	Result (x)	Ouai	Result (x)	Quai	
BKSB101	Result (x)	Quai Ln(x) 1.7917594			0.24IU	Qual	
BKSB1021	5 3	1.6094379			0.23 U		
BKSB1031	9.513				0.24 U		
		2.2512917			0.21 U		
BKSB1051	3.9 J_	1.3609765			0.21 U		
BKSB106	5 1	1.6094379					
BKSB107	6.1 J	1.8082887			0.23 U		
BKSB109	3.2 J	1.163150			0.22IU		
BKSB1101	7.8 J	2.0541237			0.23 U		
BKSB111	5. 3 J	1.6677068			0.22 U		
BKSB1131	6 1	1.7917594			0. 23 U		
BKSB114	7.7 3	2.0412203	129 0.31	BU	0.24 U		
BK\$B115	5.1 3	1.629240	0.33	2 U	0.2 U		
BKSB116	5.6 J	1.722766	598 0.3:	3 U	0. 21 U	1	
BKSB118	3.7 J	1.30833	282 0.3	4 U	0.21 U		
BKSB119	1.3 J	0.262364	264 0.3	3 U	0.21 U	1	
BKSB120	0.7213	-0.328504	067 0.3	2 U	0.210	Ţ	
BKSB1221	4.11	1.410986	9741 0.3	3 U	0.21 L	J	
BK\$B1231	3. 8 J	1.335001		3 U	0. 21 L	ĵ	
BK\$B125	1.71	0.530628			0.21	,	
BKSB126	1.51	0.405465			0.211	J	
BKSB128	7.5 J	2.014903		SU	0.22 (J	
BKSB129	4.117	1.410986		3 U	0.2110		
BK\$B1301	3.1 J	1.131402		12 U	0.21		
BKSB131	10.1	2.312535		14 U	0.22		
BKSB132	7.8 J			34 U	0.21		
BKSB133	6.31J	· · · · · · · · · · · · · · · · · · ·		35 U	0.22		
BKSB134	2.313			33 U	0.21		
BKSB136	3 1			32 R	0.22		
BKSB137	2.313			31 R	0.21		
BKSB138	4.1			32 R	0.22		
BKSB1391	3.61			31 R	0.21		
BKSB141	12.11.			.8 R	0.25		
BKSB141				1.9 R	0.25		
BKSB143	6.61			35 R	0.24		
				31 R	0.21		
BKSB144	41.			32 U	0.21		
BKSB104	5.3				0.23		
BKSB108	9.8			.37 U	0.23		
BKSB112	1.5			.32 U	0.21		
BKSB117	8.3			.33 U			
BKSB121	10.2			.34 U	0.22		
BKSB124	4.5			.34 U	0.21		
BKSB127	3.8			.33 U			
BKSB135	2.5			1.5 R	0.21		
BKSB140	33.2		498761 O	.35 R	0.24	10	
%nondetects=		0			1	 	
Distribution		L	D		D		
Mean	5.773181818		710111	345	0.217954545		
std dev	4.998382889	0.6781	01063 0.024277	437	0.01390659	"	
n	44		44			 	
K	2.097		2.097			 	
UTL	16.25479074	2.946	39637				
UTL(In)=exp(mean	1	19.037	226041	l	1	ı	

Shapiro Wilk for Arsenic

	1			:	*	
smp_id Ars	enic			al	n-i+1) b(i)	· · · · · · · · · · · · · · · · · · ·
SB101	3	0.44	11.6	11.16	0.38941	4.345704
SB102	21	0. 66	9.21	8.54	0.26841	2.292136
SB103	9.11	1	9.11	8.1	0.23341	1.89054
SB104	6.2	1.6	8.21	6.6	0.20781	1.37148
SB105	4.3	1.9	7.6	5.7	0.1871	1.06641
SB106	4.4	21	6.2	4.21	0.16951	0.711
SB108	6	2.5	6	3.5	0.15391	0.5386
SB109	3.5	2.6	6	3.41	0.13981	0.4753
SB110	4.8	2.6	5.7	3.1	0.12691	0.3933
CSB111	5.2	2.7	5.61	2.9	0.11491	0.3332
CSB112	1.6	2.9	5.31	2.4	0.10351	0.248
CSB113	5.7	31	5.3	2.31	0.09271	0.2132
KSB114	5.2	3.2	5.2	21	0.08241	0.164
KSB115	5.3	3.2	5.21	2	0.07241	0.144
KSB116	11.6	3.21	4.8	1.6	0.06281	0.1004
KSB117	4.4	3.5	4.81	1.31	0.05341	0. 069 4
KSB118	2.6	3.6	4.4	0.8	0.04421	0.0353
KSB119	0.66	3.7	4.4	0.7	0.03521	0.024
KSB120	0.44	3.8	4.3	0.5	0.0263	0.013
KSB121	4.1	3.81	4.30	0.51	0.01751	0. 008
KSB122	3.2	3.8	4.2	0.4	0.00871	0.003
KSB123	3.8	4.1	4.1	0	01	
KSB124	6	4.21	3.8	-0.4		
KSB125	3.2	4.3	3.8	-0.5		
KSB126	2.5	4.30	3.8	-0.5	sum Bi=	14.445
KSB127	1.9	4.4	3.7	-0.7		
KSB128	3.61	4.4	3.6		W(0.05,43)= !	0.9
3KSB129	2.6	4.8	3.5	-1.3	W=	0.9398279
3KSB130	1	4.8	3.2	-1.6		
3KSB131	5.3	5.2	3.2	-2		
BKSB132	4.2	5.2	3.21	-2		
BKSB133	3.21	5.3	3	-2.3		
BKSB134	2.91	5.31	2.9	-2.4		
BKSB135	2.7	5.6	2.7	-2.9		
BKSB136	4.30	5.71	2.6	-3.1		
BKSB137	8.21	61	2.6	-3.4		
BKSB138	9.21	6	2.5	-3.9	i i	
BKSB139	7.6	6.21	2	-4.2	2	
BKSB140	4.8	7.6	1.9	-5.1		
BKSB141	5.6	8.2	1.6	-6.0	6	
BKSB142	3.8	9.1	1	-8.	1	
BKSB143	3.8	9.21	0.66	-8.5	4	
BKSB144	3.7	11.6	0.44	-11.1	6	
Sum of xi	187.21					
	1000					
Mean	4.353488372					
n=	431					
sum of xi^2	1036.99921				į.	
1/n=	0.0232558141	<u> </u>				1
xi=(sum xi)^2	35043.841				- i	
d=	222.02617671		<u></u>			
w-	0.939827935		 +-			
W(0.05,43)=	0.9398279331	· · · · · · · · · · · · · · · · · · ·				-

Shapiro Wilk for Arsenic

1	in of ordered		in of Reverse	Difference xun-	i I	
i	Conc. x(i)		Order xin-i+i)	i+1)-x(i)	1	b(i)
	-0.8209805521	0.674009067			0.3894	1.27411121
	-0.4155154441	0.172653084		2.634718928		0.7071585
	01	0.172033084				
			+		-	
	0.4700036291	0.220903412			-	-
	0.6418538861	0.411976411				
	0.6931471811	0.480453014	·			
	0.916290732	0.839588705	1.791759469			
	0.955511445	0.913002122	1.791759469	0.836248024	0.1398	0.11690747
	0.955511445	0.913002123	1.740466175	0.78495473	0.1269	0.09961075
	0.993251773	0.98654908	1.722766598	0.729514825	0.1149	0.08382125
	1.064710737	1.13360895	1.667706821	0.602996084	0.1035	0.06241009
·	1.098612289	1.20694896	1.667706821	0.569094532	0.0927	0.05275506
	1.16315081	1.35291980			0.0824	0.04000584
	1.16315081	2.78124603	 			0.03515076
	1.16315081	6.00742599				+
						+
	1.252762968					+
	1.280933845					
	1.30833282	0.17265308				
	1.335001067	0.67400906	1.45861502			
	1.335001067	1.9908842	1.45861502			
	1.335001067	1.35291980	1.43508452	5 0.10008345	9 0.008	7 0.000 8707
	1.410986974	1.78222784	1.41098697	4	0	<u> </u>
	1.435084525	3.21040199	1.33500106	7 -0.10008345	9	
	1.458615023	1.35291980	1.33500106	7 -0.12361395	i 6	
	1.458615023			7 -0.12361395	6	T
	1.48160454			2 -0.17327172		3.9763811
	1.48160454	+				
	1.56861591				49 W(0.05,43)-	0.5
		+				0.9106163
	1.56861591	- 				- 0.510010.
	1.64865862					
	1.64865862					
	1.66770682	1.3529198		B91 -0.5690945		
	1.66770682	1 1.1336089	1.0647107	37 -0.6029960	841	
	1.72276659	8 0.9865490	0.9932517	73 -0.7295148	251	
	1.74046617	5 2.1275577	784 0.9555114	45 -0.784954	73	
	1.79175946	9 4.427380	0.9555114	45 -0.8362480	24	
	1.79175946	9 4.924864	0.9162907	321 -0.8754687	371	
	1.82454929			811 -1.1314021		
	2.02814824			86 -1.3862943		
	2.1041341			29 -1.6341305		
				0 -2.2082744		
	2.2082744					
	2.2192034			44 -2.6347189		
	2.4510050	1.711734	767 -0.820980	-3.27198	1001	
Sum of xi	56.267422	14	56.267423	2141		
Mean	1.3085447	011				
U-a		43				
sum of xi^2	90.992068					
1/n=	0.0232558					
xi=(sum x1)^2	3166.0227					
	J 100.044	271				
	173636	121		1	i	
d= W=	17.36363 0.9106163					

Shapiro Wilk for Barium

i:	Bkgd Conc (xi)	Ordered Conc.	Reverse Ordered x(n-	Difference x(n-		
	(mg/kg)	x(i)	i+1)	i+1)-x(i)	2(n-i +i)	b(i)
BKSB1011	21.3	2	155	153	0.3894	59.578
BKSB1021	8	3	127	124	0.2684	33.281
BKSB1031	14.7	4.4	108	103.6	0.2334	24.180
BK\$B1051	23.4	4.9			0.2078	14.026
BKSB106	43.7	5.4		63.2	0.1871	11.824
BK8B107		5.5	65.9	60.4	0.1695	
BK\$B109	155	6.1			· -	
BKSB110	24.1	6.6				
BKSB111	7.2					
BKSB113	20.5	<u> </u>				
BKSB114	25.2					
BKSB115	10.6	}			-	
BKSB116					·	
	4.9		`\			
BKSB118						
BKSB119					+	
BKSB120						
BKSB122						+
BKSB123						
BKSB125	-					
BK\$B126					-	
BKSB128						-
BK\$B129						0
BKSB130						ļ
BK\$B131		9] 21.	3 18.			1
BKSB132	41.	7 23.	4 18.			
BK\$B133	68.	6 2	4 15.		6 sum Bi=	185.94
BK\$B134	20.	1 24.	.1 14.			<u> </u>
B KS B136	5) 14.	8 25.	2 14.		5 W(0.05.43)=	0.
B KS B13	7 7.	8 26.	3 12.	2 -14.	1 W-	0.734709
BKSB13	B 12	2 27	.9 10.	.6 -17.	3	
B KSB 13	9 7	.31 28	.2 8	.1 -20.	.1	
BKSB14	1 12	7 36	.1	8 -28	.1	
BKSB14	21 6	36	.3	.81 -28	.51	
BKSB14	3 39	.3 39	.3	.31 -3	121	
BKSB14	4 36	.11 41	.71 7	.2 -34	.5	
BKSB10	41 28	.2 43	.7 6	.61 -37	.11	
BKSB10				.11 -56	.9	
BKSB11				.5 -60	.4	
BKSB11				.4 -63		
BKSB12				1.9 -67	7.5	
BKSB12				-103		
BKSB12			27		241	
BKSB13			55		531	
BKSB14		081		<u> </u>	0	
Sum of xi	129				1	
	123					
Mean	30,190697	67				
	30.19009					
n=	96868	43				
sum of xi^2	86253				-	
1/n=	0.0232558					
xi=(sum xi)^2	1685323					
d=	47059.79					
W=	0.734709					
W(0.05.43)=		9431	ı	1		

Shapiro Wilk for Barium

1.					ļ	
E.	n of ordered			Difference x(n-		
	Conc. x(i)			i+1)-x(i)		b(i)
		0.480453014		4.350277936	0.3894	1.69399822
	1.098612289	1.206948961		3.74 5574798	0.2684	1.00531227
		2.195152016		3.20 0526686	0.2334	0.74700292
	1.5892352051		4.282206299	2.692971094	0.2078	0.55959939
	1.6863989541	2.843941431	4.228292535	2.541893581	0.1871	0.47558828
	1.7047480921	2.906166058		2.483390349	0.1695	0.42093466
	1.808288771	3.26990828		2.334845955		
	1.8870696491	3.56103186		1.890278453	0.1398	0.26426092
	1.974081026		3. 730501129	1.756420103	0.1269	0.22288971
	1.987874348	3.951644424	3.671224519	1.683350171	0.1149	0.19341693
	2.054123734	4.219424313	3. 591817741	1.537694008	0.1035	0.159151
	2.079441542	4.324077125	3.586292865	1.506851324	0. 0927	0.1396851
	2.0918640621	4.375895253	3.339321978	1.247457916	0.0824	0.1027905
	2.360854001	5.573631615	3.328626689	0.967772688	0.0724	0.0700667
	2.501435952	6.257181821	3.269568939	0. 768132987	0.0628	0.0482387
	2.687847494	7.22452415	3.226843995	0.538996501	0.0534	0.0287824
	2.694627181	7.261015643	3.18221184	0.48758466	0.0442	0.0215512
	2.734367509	7.476765677	3.17805383	0.443686321	0.0352	0.0156177
	2.895911938	8.386305954	3.152736022	0.256824084	0.0263	0.0067544
	2.93385687	8.607516133	3. 058707073	0.124850203	0.0175	0.0021848
	2.960105096	8.762222179	3.020424886	0.06031979	0.0087	0.0005247
	3.000719815	9.004319409	3.000719815	1 0		
	3.020424886	9.122966493	2.960105096	-0.06031979	1	
	3.058707073	9.355688957	2.93385687	-0.124850203	: 1	
	3.152736022	9.93974442	7 2. 895911938	-0.256824084	i d	
	3.17805383	10.1000261	2.734367509	-0.443686321	1	6.5376841
	3.18221184	10.126472	2.694627181	-0.48758466	i	
	3.226843995	10.41252210	2.687847494	-0.538996501	W(0.05,43)=	0.9
	3.269568939	10.6900810	2.501435952	-0.768132987	/ W(ln)=	0.980834
	3.328626689	11.0797556	2.360854001	-0.967772688	3	
	3.339321978	11.1510712	7 2.091864062	1 -1.247457916	5(
	3.586292865	12.8614965	2.079441542	-1.506851324	1	
	3.591817741	12.9011546	2.054123734	1 -1.53769400	B1	
	3.671224519	13.4778894	7 1.98787434	1.68335017	11	
	3.730501129	13.9166386	7 1.974081020	-1.75642010	31	
	3.777348102	14.2683586	8 1.88706964	-1.89027845	3	
	4.143134726	17.1655653	6 1.80828877	1 -2.33484595	51	
	4.188138442	17.5405036		2 -2.48339034	-	
		17.8784577		4 -2.54189358		
		18.3372907		5 -2.69297109		
		7 21.9223528				
		23.4661485		9 -3.74557479	- 	
	5.04342511					-
			-, 0.02217/10			
	1			1		
Sum of xi	125.431410	3	125 431410	31		
Sum of xi	125.431410	31	125.431410	3		
			125.431410	3		
Mean	2.91700954	2	125.431410	3		
Mean n=	2.91700954	2 3	125.431410	3		
Mean n= sum of xi^2	2.91700954 4 409.461111	2 3 9	125.431410	3		
Mean n= sum of xi^2 1/n=	2.91700954 4 409.461111 0.02325581	2 3 9 4	125.431410	3		
Mean n= sum of xi^2 1/n= xi=(sum x1)^2	2.91700954 409.461111 0.02325581 15733.0386	2 3 9 4	125.431410	3		
Mean n= sum of xi^2 1/n= xi=(sum x1)^2 d=	2.91700954 409.461111 0.02325581 1 5733.0386 43.5764912	2 3 9 4 9 6 6	125.431410	3		
Mean n= sum of xi^2 1/n= xi=(sum x1)^2	2.91700954 409.461111 0.02325581 1.5733.0386 43.5764912 0.9808342	2 3 9 4 9 6 6 3	125.431410	3		

Shapiro Wilk for Cadmium

ŀ	1		Ordered		Difference x(n-	l l	
	Cadmium	(xi)^2	Conc. x(i)	Reverse Ordered x(n-i+i)	i+1)-x(i)	a(n-i+i)	b(i)
SB101	0.121	0.0144	0.02	0.79	0.77	0.38721	0.298144
SB102	0. 05	0.0025	0. 02	0.45	0.43	0. 2667	0.114681
SB103	0.025	0.000625	0.02	0.35	0.33	0.2323	0.076659
SB104	0.15	0.0225	0.02	0.29	0.27	0.2072	0.05594
SB105	0.11	0.0121	0.02	0.27	0.25	0.1868	0.0467
SB106	0.16	0.0256	0.025	0.21	0.185	0.1695	0.031357
SB107	0.35	0.1225	0.025	0.2	0.175	0.1542	0.02698
SB108	0.2	0.04				0.1405	0.024587
(SB109	0.07	0.0049	0.05	0.2	0.15	0.1278	0.0191
(SB110	0.06	0.0036				0.116	
(SB111	0.05	0.0025					
(SB112	0.02	0.0004	-				
(SB113	0.07	0.0049	·				
KSB114	0.025	0.000625		 		-	
KSB115	0.023						
KSB116	0.00		-				+
KSB117	0.18				<u> </u>		
KSB118	0.18						
KSB119							
KSB120	0.06						
KSB120	0.02	1	+				
	0.18					0.012	
KSB122	0.00					0.004	
KSB123	0.00						<u> </u>
KSB124	0.11					9	
KSB125	0.11		11 0.1	21 0.0			
KSB126	0.00		+			7 Sum of b=	0.7812
KSB127	0.00						4
KSB128	0.02					9 W-	0.74480
KSB129	0.00		4 0.1	7 0.0		1 W(0.05,44)=	0.9
KSB130	0.0	7 0. 004	9 0.1	8 0.0	61 -0.1	21	
KSB131	0.19	0.022	5 0.1	8 0.0	6 -0.1	2	
3KSB132	0.0	0.000	4 0.1	0.0	-0.1	2	
3KSB133	0.1	0.012	0.1	0.0	06 -0.1	3	
3KSB134	0.0	0.006	4 0	.2 0.0)6 - 0.1	.4	
SKSB135	0.1			.2 0.0			
BKSB136	0.	2 0.0)4 0	.2 0.0)5! - 0.1	.5	
BKSB137	0.1	8 0.00062		0.00			
BKSB138	0.2	0.02	251 0	0.00	25 -0.17	75	
BKSB139	0.	2 0.01:	21 0.	21 0.0	25 -0.11	35	
BKSB140	0.7	9 0.02	56 0.	27 0.	02 -0.:	25	
BKSB141	0.4				02 -0.:	27	
BKSB142	0.2	·			02 -0.:	33	
BKSB143	0.2				02 -0.		
BKSB144		.21 0.00				77	
Sum of xi	6.2						
Mean	0.1414772						
n=		44					
sum of xi^2	1.7001						
1/n=	0.0227272						
xi=(sum xi)^2	38.7506				_		
d=	0.8194789			-			
w=							_
	0.7448006						
W(0.05.44)=	1 0.9	441	1		1	1	1

Shapiro Wilk for Cadmium

	16			7.6		
come id	In of ordered Conc. x(i)	ln(xi)^2	In of Reverse Order x(n-i+i)	Difference x(n- i+1)-x(i)	a(n-i+1)	b(i)
KSB101	-3.9120230051			3.676300672	0.38721	1.42346362
KSB102	-3.9120230051				0.26671	0.830374533
KSB103	-3.912023005	15.303924	 		0.23231	0.664889265
KSB104	-3.912023005				0.2072	0.5540836
KSB105	-3.912023005		• • • • • • • • • • • • • • • • • • • 		0.1868	0.486182433
KSB106	-3.688879454	· · · · · · · · · · · · · · · · · · ·	+		0.1695	0.360735274
KSB107	-3.688879454				0.15421	0.320649886
KSB108	-3.688879454		 		0.1405	0.292161537
KSB109	-2.995732274		÷		0.1278	0.177168419
KSB110	-2.995732274		+		0.116	0.160810146
KSB111	-2.813410717				0.1049	0.126296747
3KSB112	-2.813410717				2.00.40	0.108697671
SKSB113	-2.813410717	+				0.09250315
SKSB114	-2.813410717					0.08184661
BKSB115	-2.813410717					0.0715196
BKSB116	-2.659260037	 				0.04968897
BKSB117	-2.659260037					0.03893656
BKSB118	-2.659260037					
BKSB119	-2.525728644	+				0.01860681
BKSB120	-2.525728644		-			0.00855531
BKSB121	-2.207274913	+				
BKSB122	-2.20727491					
BKSB123	-2.20727491				0	
BKSB124	-2.20727491		-		ol .	
BKSB125	-2.12026353				8	1
BKSB126	-1.89711998					5.89636020
BKSB127	-1.89711998					
BKSB128	-1.83258146					0.94177683
BKSB129	-1.77195684				5 W(0.05,44)=	0.94
BKSB130	-1.71479842					
BKSB131	-1.71479842	81 2.940533	55 -2.81341071	7 -1.09861228	91	
BKSB132	-1.71479842		_+		91	
BKSB133	-1.66073120	71 2.758028			11	
BKSB134	-1.60943791				4	
BKSB135	-1.60943791			_	11	
BKSB136		2.590290				
BKSB137			39 -3.6888794			
BKSB138			39 -3.6888794			1
BKSB139		481 2.435621				
BKSB140		32 1.714353				1
BKSB141		56 1.532332				
BKSB142		24 1.102126				
BKSB143		96 0.637614				
BKSB144		34 0.05556				
Sum of xi	-103.1068					
Mean	-2.3433380					
u=		441				
sum of xi^2	278.53071					
1/n=	0.0227272					
xi=(sum xi)^2	10631.027					
d=	36.916456					
w=	0.9417761					
W(0.05,44)=		944		_		

Shapiro Wilk Chromium

	!			Difference x(n-	a(n-i+1) b	(i)
			i+1)	i+1)-x(i)	0.3872	8. 77782 4
KSB101 KSB102	5.1	0.93	23.6			5.09397
KSB102	10.3	1.2	20.3	14.8		3. 4380 4
KSB104	10.1	1.8	16.6	14.6	-	2.900
KSB105	3.11	2.1	16.1	10.7		1.9987
KSB105	7.6	2.2	12.9			1.6102
KSB107						1.233
KSB107	5.1	3.1			-	0.927
KSB109	6.5	3.7			+	0.7795
KSB110	16.6					0.568
KSB111	6.2					0.4405
KSB112	4				+	0.3583
KSB113	8.9					0.294
KSB114	20.3	ļ	· · · · · · · · · · · · · · · · · · ·			0.253
KSB115	7.3				0.0651	0.19
KSB116	2.7		·			0.14
SKSB117	5.7					0.117
3KSB118	2.3	+				0.068
3KSB119	2.1	+				0.04
BKSB120	0.93					0.012
BKSB121	6.3					0.005
BKSB122	4.9					0.000
BKS8123	4.:					
BKSB124	7.					
BKSB125					6 Sum of b=	29.2640
BKSB125	5.					27.2040
BKSB127	3.		.21 5. .31 5.		.s.w-	0.871000
BKSB128	8.		.61 5.		.5 W(0.05,45)=	0.571000
BKSB129	4.	- 1		11 -2		0.2
BKSB130					-31	
BKSB131					.41	
BKSB132					.5	-
BKSB133					.81	
BKSB134					1.2	`
BKSB135					1.9	
BKSB138		- 	3.9		5.11	
BKSB137	8.3		0.1 (0.3 i 3		5.6	+
BKSB138				.7	-8	-
BKSB139					9.5	
BKSB140					0.7	
BKSB141					-14	+
BKSB142		 			4.8	
BKSB143		_			9.1	+
BKSB144		_			.67	
Sum of x			J.J. U.		1	
	322	.031				
Mean	7.3188636	361				
n=		441				
sum of x _i ^2	3340.11	1491				
1	0.0227272	2731				
1/n=						
<u> </u>	 					-
1/n=	 	2091		1		

Shapiro Wilk Chromium

W=	0.9665	32681				
d=	19.91989					
X _L (sum XI	^2 61 80.1 50	1971				
1/n=	0.022727	2731				
sum of x _i ^:	2 160.3778	4981				
u=		44				
Mean	1.786680	2571				
Sum of x;	78.61393					
BKSB144				93 -3.23381740		
BKSB143		886 9.993480		57 -2.82829932		
BKSB142	2.809402			65 -2.2216160		
BKSB141		7.721 7.892743		45 -2.03688192		
BKSB140		7.721836		36 -1.76 87 6995		
BKSB139		521 6.539411		73 -1.50818417		
BKSB137		08 6.257181		1 -1.27554299		
BKSB136	2.3125354	24 5.3478200 95 5.793384		2 -1.02381107		
BKSB135	2.1860512	- +				
BKSB134	2.1400661					
	2.1282317					+
BKSB132 BKSB133	2.1282317					+
BKSB131	2.1162555					+
BKSB130	2.0918640					+
BKSB129	2.0412203					+
BKSB128	2.02814824				W(0.05,45)-	0.9
BKSB127	1.98787434					0.966332
BKSB126	1.97408102					0.966532
BKSB125	1.87180217					4.3878497
BKSB124	1.87180217					A 2070407
BKSB123	1.84054963					1
BKSB122	1.82454929				0.0042	
BKSB121	1.80828877				0.0126	-
BKSB120	1.77495235	1 3.15045584			0.0211	
3KSB119	1.74046617	3.02922250	6 1.974081026		0.0296	
3KSB118	1.70474809	2.90616605			0.0383	
KSB117	1.6292405	2.65442473	6 2.028148247		0.0471	-
KSB116	1.6292405	2.65442473	6 2.041220329		0.056	†
KSB115	1.62924054	2.65442473	6 2.091864062		0.0651	0.03011679
KSB114	1.589235205	2.52566853	7 2.116255515	0.52702031	0. 074 5	
KSB113	1.589235205			0.538996501	0.0842	0.04538350
KSB112	1.526056303			0.602175402	0.0943	0.0567851
KSB111	1.458615023			0.681451141	0.1049	0.07148422
KSB110	1.386294361	+		0.799756916	0.116	0.092771802
KSB109	1.386294361			0.926241063	0.1278	0.11837360
KSB108	1.30833282			1.023811076	0.1405	0.143845456
KSB107	1.131402111	1.280070738		1.275542997	0.15421	0.19668873
KSB105 KSB106	0.78845736 0.993251773			1.508184179	0.16951	0.255637218
KSB104	0.741937345		 	2.036881927 1.768769951	0.1868	0.330406227
KSB103	0.587786665			2.22161603	0.2323	0.516081404
KSB102	0.182321557				0.2667	0.754307431
KSB101	-0. 072570693	0.005266505			0.3872	1.252134099
smp_id	Conc. x(i)	ln(xi)^2			 	x(i)
	in of ordered		in of Reverse Order i			

Shapiro Wilk for Lead

1	i		Reverse Orde				١.		~
smp_id	Lead	x(i)	i+1)		i+1)-x(i)	, ,		(i)
SB101	6	0.72		3 3.2		32.48	-	0.3872	12.576256
SB102	5	1.3		12.1		10.8	-	0.2667	2.88036
ISB103	9.5	1.5		10.2		8.7	-	0.23231	2.02101
CSB104	5.3	1.5		10.1		8.6	1_	0.2072	1.78192
(SB105	3.9	1.7	1	9.8		8.1	<u>L</u>	0.1868	1.51308
(SB106	5	2.3	1	9.5		7.2	1	0.1695	1.2204
KSB107	6.1	2.3	1	8.3		6	1	0.1542	0.9252
KSB108	9.8	2.5	1	7.8		5.3		0.1405	0.74465
KSB109	3.2	3.00		7.8	1	4.8	1	0.1278	0.61344
KSB110	7.8	3.1		7.7	1	4.6	51	0.116	0.5330
KSB111	5.3	3.2	2	7.5		4.3	31_	0.1049	0.4510
KSB112	1.5	3.0	5	6.6	<u> </u>		31	0.0943	0.282
KSB113			7	6.3	1	2.0	51	0.0842	0.2189
KSB114	7.			6.1	1	2.	31	0.0745	0.1713
KSB115	5.				5	2.:	2	0.0651	0.1432
KSB116	5.0				5	2.	1	0.056	0.117
KSB117	8.3		41	5.0		1.	_	0.0471	0. 0753
KSB118	3.			5.:	_	1.	_	0.0383	0.0459
KSB119	1.			5.		1.	-	0.0296	0.0355
KSB120	0.7			5.	-		╗	0.0211	0.021
KSB121	10.		51		31	0.	डो	0.0126	0.006
KSB122	4.	_	5		5		0	0.0042	
3KSB123					3		히	0	
	3.	-	51	4.	-	-0	<u> </u>		
SKSB124		.51	51		_		: 		
3KSB125			.11		4			Sum of b=	26.3792
BKSB126			.31		! 		2	Sum or b-	203772
BKSB127			.31	4	.11		_	w=	0.647733
BKSB128			.61		4		-		0.047733
BKSB129		.1	6		.91		_	W(0.05,45)=	0.9
BKSB130	3	.1	6		.81		-2		
BKSB131	10).1	5.11		.81		2.3		1
BKSB132	7	7.81	5.3		.7	•7	2.6		
BKSB133		5.3	5.6	3	.6		-3		
BKSB134		2.3	7.5	3	3.2		4.3		
BKSB135		2.5	7. 7		3.1		4.6		
BKSB136	3.	00	7.8	3.	00		4.8		
BKSB137		2.31	7.8		2.5		5.3		
BKSB138		4.1	8.3		2.3		-6		
BKSB139	L	3.6	9.5		2.3	•	7.2		
BKSB140	3	_	9.8		1.7	-	8.1	<u> </u>	
BKSB141	1	2.1	0.1		1.5		8.6		
BKSB142			0.2		1.5	•	8.7		
BKSB143			2.1		1.3	-1	0.8		
BKSB144			3.2	0	.72	-32	2.48		
Sum of xi	254	1.021							
Mean	5.7731								
U.	3.7,31	441							
sum of xi^2	2540.8								
1/n=	0.0227								
xi=(sum xi)^2							-	+	<u> </u>
							_	 	-
d=	1074.3							1	
W=	0.6477					 			
W(0.05,44)=	1 0	.9441	1					1	1

Shapiro Wilk for Lead

11	n of ordered	i	in of Reverse	Difference x(n-	1	
Į.		n(xi)^2		i-1)-x(i)	a(n-i+i) b	(i)
(SB101	-0.3285040671	0.107914922	3.5025498761	3.831053943	0.3872	1.483384087
KSB102	0.262364264	0.068835007		2.230841188	0.2667	0.594965345
KSB103	0.4054651081	0.164401954	2.32238772	1.916922612	0.23231	0.445301123
KSB104	0.4054651081	0.164401954		1.907070316	0.2072	0.395144969
			2.282382386		0.1868	0.327227672
KSB105	0.530628251	0.281566341		1.418382676	0.1695	0.240415864
KSB106	0.8329091231	0.693737607			0.1542	0.197892014
KSB107	0.8329091231	0.693737607			0.1405	0.159865537
KSB108	0.9162907321	0.839588705				0.122114363
KSB109	1.098612289	1.206948961			0.1278	
KSB110	1.131402111	1.280070738				0.105538913
KSB111	1.16315081	1.352919806	2.014903021		0.1049	0.089348807
KSB112	1.280933845	1.640791516	1.887069649	0.606135804		0.057158606
KSB113	1.30833282	1.71173476	1.840549633	0.532216814		0.044812656
SKSB114	1.335001067	1.78222784	1.808288771	0.473287704		0.035259934
3KSB115	1.335001067	1.78222784	B 1.791759469	0.456758402	0.0651	0.02973497
3KSB116	1.360976553	1.85225717	8 1.791759469	0.430782916		0.02412384
3KSB117	1.386294361	1.92181205	6 1.722766591	0.336472237	0.0471	0.01584784
BKSB118	1.410986974	1.9908842	4 1.66770682	0.256719847	0.0383	0.0098323
BKSB119	1.410986974	1.9908842	4 1.66770682	0.25671984	0.0296	0.00759890
BKSB120	1.410986974	 	41 1.6292405	41 0.218253566	0.0211	0.0046051
BKSB121	1.504077397				0.0126	0.00132754
BKSB122	1.609437912				0.0042	
BKSB123	1.609437912				0	
BKSB124	1.609437912				6	
8KSB125	1.62924054					
						4.39150051
BKSB126	1.66770682					
BKSB127	1.66770682					0.9753681
BKSB128	1.722766591					0.5755001.
BKSB129	1.79175946					0.9
BKSB130	1.79175946	9 3.2104019			2 W(0.05,44)=	0.5
BKSB131	1.80828877	11 3. 269908				
BKSB132	1.84054963	31 3. 3876229	53 1.30 83 32			
BKSB133	1.88706964	9 3.561031	86 1.2809338	45 -0.60613580	041	
BKSB134	2.01490302	4.0598341	82 1.163150	81 -0.8517522	11	
BKSB135	2.04122032	9 4.1665804	31 1.1314021	11 -0.9098182	17	
BKSB136	2.05412373	4.2194243	1.0986122	89 -0.9555114	45	
BKSB137	2.05412373	4.2194243	0.9162907	32 -1.1378330	02	
BKSB138	2.11625551	4.4785374	0.8329091	23 -1.2833463	92	
BKSB139	2.25129179			23 -1.4183826	76	
BKSB140	2.2823823					
BKSB141	2.3125354				16	
BKSB142	2.322387			108 -1.9169226		
BKSB143	2.4932054	-				
BKSB144	3.5025498					
Sum of xi	67.074411		-0.326304	1		
						
Mean	1.524418					
G 100	100 000	44				
sum of xi^2	122.02177					-
1/n=	0.0227272	• • • • • • • • • • • • • • • • • • • 				
xi=(sum xi)	2 4498.9766	5621				
d=	19.77230	323				
W(ln)=	0.975368	151				
						1

Mean Comparison Statistical Results for Arsenic Samples Collected at FH-010

COMPOUND	N	R	U	MEAN	SD	Z
ArsenicA	25	998.00	402.00	537.50	78.62	-1.72
ArsenicB	43	1348.00				

Mean Comparison Statistical Ranking Results for Arsenic Samples Collected at FH-010

COMPOUND	RESULT	RANK NEWRANK
ArsenicB	0.4400	1.0 1.00
ArsenicB	0.6600	2.0 2.00
ArsenicB	1.0000	3.0 3.00
ArsenicB	1.6000	4.0 4.00
ArsenicA	1.9000	5.0 5.50
ArsenicB	1.9000	6.0 5.50
ArsenicB	2.0000	7.0 7.00
ArsenicB	2.5000	8.0 8.00
ArsenicB	2.6000	9.0 9.50
ArsenicB	2.6000	10.0 9.50
ArsenicA	2.7000	11.0 11.5
ArsenicB	2.7000	12.0 11.5
ArsenicB	2.9000	13.0 13.0
ArsenicB	3.0000	14.0 14.0
ArsenicA	3.1000	15.0 15.0
ArsenicB	3.2000	16.0 17.0
ArsenicB	3.2000	17.0 17.0
ArsenicB	3.2000	18.0 17.0
ArsenicA	3.4000	19.0 19.0
ArsenicB	3.5000	20.0 20.0
ArsenicB	3.6000	21.0 21.0
ArsenicA	3.7000	22.0 23.0
ArsenicA	3.7000	23.0 23.0
ArsenicB	3.7000	24.0 23.0
ArsenicA	3.8000	25.0 26.5
ArsenicB	3.8000	26.0 26.5
ArsenicB	3.8000	27.0 26.5
ArsenicB	3.8000	28.0 26.5
ArsenicA	3.9000	29.0 29.0
ArsenicB	4.1000	30.0 30.0
ArsenicA	4.2000	31.0 31.5
ArsenicB	4.2000	32.0 31.5
ArsenicA	4.3000	33.0 34.0
ArsenicB	4.3000	34.0 34.0
ArsenicB	4.3000	35.0 34.0
ArsenicB	4.4000	36.0 36.5
ArsenicB	4.4000	37.0 36.5
ArsenicA	4.5000	38.0 38.5
ArsenicA	4.5000	39.0 38.5
ArsenicA	4.6000	40.0 40.0
ArsenicA	4.8000	41.0 42.0
ArsenicB	4.8000	42.0 42.0
ArsenicB	4.8000	43.0 42.0
ArsenicA	4.9000	44.0 44.5
ArsenicA	4.9000	45.0 44.5
ArsenicB	5.2000	46.0 46.5
ArsenicB	5.2000	47.0 46.5
ArsenicB	5.3000	48.0 48.5
ArsenicB	5.3000	49.0 48.5
ArsenicA	5.4000	50.0 50.0
ArsenicA	5.5000	51.0 51.0
ArsenicB	5.6000	52.0 52.0
ArsenicB	5.7000	53.0 53.0
ArsenicA	5.9000	54.0 54.0

COMPOUND	RESULT	RANK	NEWRANK
ArsenicB	6.0000	55.0	55.5
ArsenicB	6.0000	56.0	55.5
ArsenicB	6.2000	57.0	57.0
ArsenicA	6.4000	58.0	58.0
ArsenicA	7.3000	59.0	59.0
ArsenicA	7.5000	60.0	60.0
ArsenicB	7.6000	61.0	61.0
ArsenicB	8.2000	62.0	62.0
ArsenicB	9.1000	63.0	63.0
ArsenicB	9.2000	64.0	64.0
ArsenicA	11.4000	65.0	65.0
ArsenicB	11.6000	66.0	66.0
ArsenicA	12.1000	67.0	67.0
ArsenicA	13.3000	68.0	68.0

APPENDIX G

FH-010 Screening Results

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
CPT101	10CPT101		Vinyl Chloride	0.019	0.001	mg/l	30 TAC 335 Groundwater	0.002	mg/l
CPT104	10CPT104		Vinyl Chloride	0.0013	0.001	mg/l	30 TAC 335 Groundwater	0.002	mg/l
CPT118	10CPT118		Vinyl Chloride	0.0044	0.001	mg/l	30 TAC 335 Groundwater	0.002	mg/l
PZ101	10SB117	20.0-21.0	Arsenic	12.1	0.18	mg/kg	Soil Background	9.2	mg/kg
			Barium Chromium	3.8	0.13	mg/kg	Soil Background	157.3	mg/kg
			Lead	2.8 4.5	0.08 0.14	mg/kg mg/kg	Soil Background Soil Background	24.9 19	mg/kg mg/kg
			Selenium	0.26 J	0.14	mg/kg	30 TAC 335 Industrial Soil GWP	5.0	mg/kg
			Acetone	0.006	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
PZ102	10SB118	17.0-18.5	Arsenic	6.4	0.19	mg/kg	Soil Background	9.2	mg/kg
			Barium	3.3	0.14	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.9	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.6	0.15	mg/kg	Soil Background	19	mg/kg
			Selenium	0.25 J	0.24	mg/kg	30 TAC 335 Industrial Soil GWP	5.0	mg/kg
			n-Butylbenzene	0.006	0.005	mg/kg	30TAC335 Ind Soil GWP Calc. M	SC 102	mg/kg
PZ103	10PZ101		Barium	0.148	0.0006	mg/l	30 TAC 335 Groundwater	2.0	mg/l

Chlorobenzene 0.006 0.005 mg/l 30 TAC 335 Groundwater 0.1 mg/l	Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
10SB119 20.0-20.5 Arsenic 2.7 0.18 mg/kg Soil Background 9.2 mg/kg Soil Background 157.3 mg/kg Soil Background 19 mg/kg Soil Background 10 Soil Background 10 Soil Background 10 Soil Background 157.3 mg/kg Soil	PZ103	10PZ101		Chromium	0.0057	0.0007	mg/l	30 TAC 335 Groundwater	0.1	mg/l
Barium 5.1 0.13 mg/kg Soil Background 157.3 mg/kg Soil Bac				Chlorobenzene	0.006	0.005	mg/l	30 TAC 335 Groundwater	0.1	mg/l
Barium 5.1 0.13 mg/kg Soil Background 157.3 mg/kg Soil Background 19 mg/kg Soil Background 19 mg/kg Soil Background 19 mg/kg Soil Background 157.3 mg/kg Soil Background		10SB119	20.0-20.5	Arsenic	2.7	0.18	mg/kg	Soil Background	9.2	mo/ko
Chromium 2.8 0.08 mg/kg Soil Background 24.9 mg/kg mg/kg Soil Background 19 mg/kg Soil Background 19 mg/kg Soil Background 10 Soil Soil Soil Soil Soil Soil Soil Soil				Barium						
Lead 2.8 0.14 mg/kg Soil Background 19 mg/kg				Chromium						
Lead 0.0016 0.0015 mg/l 30 TAC 335 Groundwater 0.015 mg/l 10SB120 15.0-15.5 Arsenic 4.5 0.19 mg/kg Soil Background 9.2 mg/kg Barium 3.9 0.14 mg/kg Soil Background 157.3 mg/kg Chromium 2.5 0.08 mg/kg Soil Background 24.9 mg/kg Lead 3.7 0.15 mg/kg Soil Background 19 mg/kg Acetone 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg Methylene Chloride 0.012 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 157.3 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg				Lead	2.8	0.14				mg/kg
Lead 0.0016 0.0015 mg/l 30 TAC 335 Groundwater 0.015 mg/l 10SB120 15.0-15.5 Arsenic 4.5 0.19 mg/kg Soil Background 9.2 mg/kg Barium 3.9 0.14 mg/kg Soil Background 157.3 mg/kg Chromium 2.5 0.08 mg/kg Soil Background 24.9 mg/kg Lead 3.7 0.15 mg/kg Soil Background 19 mg/kg Acetone 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg Methylene Chloride 0.012 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 157.3 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg	PZ104	10PZ102		Barium	0.0769	0.0006	ma/l	30 TAC 335 Groundwater	2.0	ma/l
Barium 3.9 0.14 mg/kg Soil Background 157.3 mg/kg Chromium 2.5 0.08 mg/kg Soil Background 24.9 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 19 mg/kg Soil Background 19 mg/kg Methylene Chloride 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 0.67 mg/kg Soil Background 0.67 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 0.67 mg/kg Soil Background 0.67 mg/kg Soil Background 157.3 mg/kg So	12101					_				
Barium 3.9 0.14 mg/kg Soil Background 157.3 mg/kg Chromium 2.5 0.08 mg/kg Soil Background 24.9 mg/kg Lead 3.7 0.15 mg/kg Soil Background 19 mg/kg Methylene Chloride 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg Methylene Chloride 0.012 0.005 mg/kg Soil Background 0.5 mg/kg Soil Background 157.3 mg/kg Soil Background 157.3 mg/kg Soil Background 0.67		10SB120	15.0-15.5	Arsenic	4.5	0.19	mg/kg	Soil Background	9.2	mg/kg
Chromium 2.5 0.08 mg/kg Soil Background 24.9 mg/kg Lead 3.7 0.15 mg/kg Soil Background 19 mg/kg Acetone 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg Methylene Chloride 0.012 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 19 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 19 mg/kg Chromium 7.2 0.16 mg/kg Soil Background 9.2 mg/kg Soil Background 9.2 mg/kg Soil Background 9.2 mg/kg							mg/kg	Soil Background	157.3	mg/kg
Acetone Methylene Chloride 0.009 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 1020 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg										mg/kg
Methylene Chloride 0.012 0.005 mg/kg 30 TAC 335 Industrial Soil GWP 0.5 mg/kg SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg				Lead	3.7	0.15	mg/kg	Soil Background	19	mg/kg
SB101 10SB101 0.0-0.5 Arsenic 4.9 0.38 mg/kg Soil Background 9.2 mg/kg Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg								30 TAC 335 Industrial Soil GWF		mg/kg
Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg Soil Background 10 mg				Methylene Chloride	0.012	0.005	mg/kg	30 TAC 335 Industrial Soil GWF	0.5	mg/kg
Barium 39.9 0.09 mg/kg Soil Background 157.3 mg/kg Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg Soil Background 10 mg	SB101	10SB101	0.0-0.5	Arsenic	4 9	0.38	ma/ka	Soil Background	9.2	ma/ka
Cadmium 0.13 B 0.05 mg/kg Soil Background 0.67 mg/kg Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg	02101	1002101	0.0 0.0							
Chromium 6.6 0.09 mg/kg Soil Background 24.9 mg/kg Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg mg/kg Soil Background 19 mg/kg Soil Background 9.2 m										
Lead 7.2 0.16 mg/kg Soil Background 19 mg/kg 10SB102 16.5-17.0 Arsenic 7.3 0.43 mg/kg Soil Background 9.2 mg/kg				Chromium						mg/kg
				Lead	7.2	0.16				mg/kg
		10SB102	16.5-17.0							mg/kg
				Barium	23.4	0.1	mg/kg	Soil Background	157.3	mg/kg

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB101	10SB102	16.5-17.0	Cadmium	0.06 B	0.05	mg/kg	Soil Background	0.67	mg/kg
ODIOI	1000102	10.5 17.0	Chromium	4.7	0.03	mg/kg	Soil Background	24.9	mg/kg
			Lead	6.4	0.18	mg/kg	Soil Background	19	mg/kg
							· ·		0 0
	10SB103	25.5-26.0	Arsenic	5.9	0.35	mg/kg	Soil Background	9.2	mg/kg
			Barium	2.3	0.09	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.5	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	3.5	0.15	mg/kg	Soil Background	19	mg/kg
			Toluene	0.032	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg
SB102	10SB115	0.0.1.0	Amonio	4.0	0.20	/I	Cail Davidson and	0.2	
3B102	1038113	0.0-1.0	Arsenic	4.9	0.39	mg/kg	Soil Background	9.2 157.3 0.67 24.9	mg/kg
	102 1035113		Barium Cadmium	35.9 0.12 B	0.1 0.05	mg/kg	Soil Background		mg/kg
			Chromium			mg/kg	Soil Background		mg/kg
				7	0.1 0.17	mg/kg	Soil Background		mg/kg
			Lead	6.9	0.17	mg/kg	Soil Background	19	mg/kg
	FHGW101		Arsenic	0.0215	0.0025	mg/l	30 TAC 335 Groundwater	0.05	mg/l
			Barium	0.254	0.0003	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			1,4-Dichlorobenzene	0.027	0.01	mg/l	30 TAC 335 Groundwater	0.075	mg/l
			N-Nitrosodiphenylamine	0.015	0.01	mg/l	30 TAC 335 Groundwater	0.017	mg/l
			Naphthalene	0.05	0.01	mg/l	30 TAC 335 Groundwater	1.46	mg/l
			1,2,4-trimethylbenzene	0.049	0.005	mg/l	30 TAC 335 Groundwater Calc. M	SC 1.83	mg/l
			1,3,5-trimethylbenzene	0.007	0.005	mg/l	30 TAC 335 Groundwater Calc. M	SC 1.83	mg/l
			1,4-Dichlorobenzene	0.039	0.005	mg/l	30 TAC 335 Groundwater	0.075	mg/l
			Chlorobenzene	0.079	0.005	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			Ethylbenzene	0.032	0.005	mg/l	30 TAC 335 Groundwater	0.7	mg/l
			Isopropyl Benzene	0.006	0.005	mg/l	30 TAC 335 Groundwater Calc. M	SC 3.65	mg/l
			m,p-Xylene	0.075	0.005	mg/l	30 TAC 335 Groundwater	10	mg/l
			n-propylbenzene	0.009	0.005	mg/l	30 TAC 335 Groundwater Calc. M	SC 0.365	mg/l

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB102	FHGW101	· 	Naphthalene	0.078	0.005	mg/l	30 TAC 335 Groundwater	1.46	mg/l
3 D 10 2	1110 11 101		o-Xylene	0.013	0.005	mg/l	30 TAC 335 Groundwater	10.0	mg/l
			Vinyl Chloride	0.02	0.005	mg/l	30 TAC 335 Groundwater	0.002	mg/l
			·						
SB103	10SB112	0.0-1.0	Arsenic	4.3	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	26.5	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.09 B	0.05	mg/kg	Soil Background	0.67	mg/kį
			Chromium	6	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.6	0.16	mg/kg	Soil Background	19	mg/kg
	10SB113	15.5-16.0	Arsenic	3.7	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	7.2	0.09	mg/kg	Soil Background	157.3	mg/k
			Chromium	4.8	0.09	mg/kg	Soil Background	24.9	mg/k
			Lead	6.6	0.16	mg/kg	Soil Background	19	mg/k
	10SB114	25.0-25.5	Arsenic	4.5	0.35	mg/kg	Soil Background	9.2	mg/k
			Barium	1.9	0.09	mg/kg	Soil Background	157.3	mg/k
			Chromium	1.5	0.09	mg/kg	Soil Background	24.9	mg/k
			Lead	2.6	0.15	mg/kg	Soil Background	19	mg/k
			Acetone	0.42	0.027	mg/kg	30 TAC 335 Industrial Soil GWF		mg/k
			Toluene	0.015	0.005	mg/kg	30 TAC 335 Industrial Soil GWI		mg/k
			Trichloroethene	0.011	0.005	mg/kg	30 TAC 335 Industrial Soil GWF	0.5	mg/k
SB104	10SB110	0.0-1.0	Arsenic	5.5	0.42	mg/kg	Soil Background	9.2	mg/k
			Barium	51.3	0.1	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.58 B	0.05	mg/kg	Soil Background	0.67	mg/k
			Chromium	10.2	0.1	mg/kg	Soil Background	24.9	mg/k
			Lead	13.9	0.18	mg/kg	Soil Background	19	mg/k

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB104	10SB111	25.0-25.5	Arsenic	4.6	0.36	mg/kg	Soil Background	9.2	mg/kg
			Barium	2.3	0.09	mg/kg	Soil Background	157.3	mg/kg
			Chromium	2	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	2.9	0.15	mg/kg	Soil Background	19	mg/kg
			Trichloroethene	0.008	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg
CD 404	1000105	0.0.1.0			0.4			0.0	
SB105	10SB107	0.0-1.0	Arsenic	3.4	0.4	mg/kg	Soil Background	9.2	mg/kg
			Barium	23.5	0.1	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.07 B	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium Lead	6.6 3.5	0.1 0.17	mg/kg	Soil Background Soil Background	24.9 19	mg/kg
			Lead	3.3	0.17	mg/kg	Son Background	19	mg/kg
			Acetone	0.14	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			Toluene	0.007	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg
	10SB108	16.0-17.0	Arsenic	1.9	0.34	mg/kg	Soil Background	9.2	mg/kg
		1010 1110	Barium	1.8	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.1	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	2	0.15	mg/kg	Soil Background	19	mg/kg
	10SB109	27.0-28.0	Arsenic	4.2	0.35	mg/kg	Soil Background	9.2	mg/kg
	1000103	_,	Barium	2	0.09	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.4	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	3.1	0.15	mg/kg	Soil Background	19	mg/kg
			Toluene	0.026	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/kg

Location	Sample ID	Depth	Parameter	Result		PQL	Units	Screening Criteria	Screening Value	Units
SB106	10SB104		Arsenic	3.9		0.4	mg/kg	Soil Background	9.2	mg/k
			Barium	55.3		0.1	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.14	В	0.05	mg/kg	Soil Background	0.67	mg/k
			Chromium	7.1		0.1	mg/kg	Soil Background	24.9	mg/k
			Lead	7.5		0.17	mg/kg	Soil Background	19	mg/k
			Toluene	0.01		0.006	mg/kg	30 TAC 335 Industrial Soil GWP	100	mg/k
	10SB105	15.5-16.0	Arsenic	13.3		0.37	mg/kg	Soil Background	9.2	mg/k
	.002.00	10.0	Barium	7.7		0.09	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.15	В	0.04	mg/kg	Soil Background	0.67	mg/k
			Chromium	5.6		0.09	mg/kg	Soil Background	24.9	mg/l
			Lead	14.4		0.15	mg/kg	Soil Background	19	mg/k
	10SB106	25.0-25.5	Arsenic	11.4		0.35	mg/kg	Soil Background	9.2	mg/k
			Barium	5.6		0.09	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.08	В	0.04	mg/kg	Soil Background	0.67	mg/k
			Chromium	3		0.09	mg/kg	Soil Background	24.9	mg/k
			Lead	5.4		0.15	mg/kg	Soil Background	19	mg/k
			Acetone	0.017		0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/k
SB107	10GW101		Arsenic	0.0234		0.0029	ma/l	30 TAC 335 Groundwater	0.05	ma/l
D10/	IOO W IOI		Barium	0.506		0.0029	mg/l mg/l	30 TAC 335 Groundwater	2.0	mg/l mg/l
			Cadmium	0.0076		0.0003	mg/l	30 TAC 335 Groundwater	0.005	mg/l
			Chromium	0.0392		0.0003	mg/l	30 TAC 335 Groundwater	0.003	mg/l
			Lead	0.248	N*	0.0007	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Mercury	0.0005		0.0013	mg/l	30 TAC 335 Groundwater	0.002	mg/l

Location	Sample ID	Depth	Parameter	Result	:	PQL	Units	Screening Criteria	Screening Value	Units
SB107	10GW101		1,4-Dichlorobenzene	0.025		0.005	mg/l	30 TAC 335 Groundwater	0.075	mg/l
			Chlorobenzene	0.084		0.005	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			n-propylbenzene	0.007		0.005	mg/l	30 TAC 335 Groundwater Calc. M	SC 0.365	mg/l
			Naphthalene	0.059		0.005	mg/l	30 TAC 335 Groundwater	1.46	mg/l
			Vinyl Chloride	0.026		0.005	mg/l	30 TAC 335 Groundwater	0.002	mg/l
	10SB121	0.0-2.0	Arsenic	5.4		0.2	mg/kg	Soil Background	9.2	mg/k
			Barium	30.2		0.15	mg/kg	Soil Background	157.3	mg/k
			Cadmium	0.1	В	0.03	mg/kg	Soil Background	0.67	mg/l
			Chromium	6.8		0.09	mg/kg	Soil Background	24.9	mg/l
			Lead	7.9		0.16	mg/kg	Soil Background	19	mg/l
			Mercury	0.05		0.04	mg/kg	30 TAC 335 Industrial Soil GWP	0.2	mg/l
	10SB122	2.0-4.0	Arsenic	4.8		0.2	mg/kg	Soil Background	9.2	mg/k
			Barium	20.2		0.14	mg/kg	Soil Background	157.3	mg/l
			Cadmium	0.1	В	0.03	mg/kg	Soil Background	0.67	mg/l
			Chromium	4		0.09	mg/kg	Soil Background	24.9	mg/l
			Lead	2.3		0.15	mg/kg	Soil Background	19	mg/l
	10SB123	4.0-6.0	Arsenic	3.8		0.21	mg/kg	Soil Background	9.2	mg/k
			Barium	37		0.15	mg/kg	Soil Background	157.3	mg/l
			Cadmium	0.09	В	0.04	mg/kg	Soil Background	0.67	mg/l
			Chromium	4.9		0.09	mg/kg	Soil Background	24.9	mg/l
			Lead	3.6		0.16	mg/kg	Soil Background	19	mg/l
	10SB124	6.0-8.0	Arsenic	3.7		0.2	mg/kg	Soil Background	9.2	mg/k
			Barium	53.3		0.14	mg/kg	Soil Background	157.3	mg/l
			Cadmium	0.08	В	0.03	mg/kg	Soil Background	0.67	mg/l
			Chromium	5.6		0.09	mg/kg	Soil Background	24.9	mg/l
			Lead	5.5		0.15	mg/kg	Soil Background	19	mg/l

Location	Sample ID	Depth	Parameter	Result		PQL	Units	Screening Criteria S	creening Value	Units
SB107	10SB125	8.0-12.0	Arsenic	3.1		0.22	mg/kg	Soil Background	9.2	mg/kg
			Barium	33.8		0.16	mg/kg	Soil Background	157.3	mg/kg
			Chromium	5.6		0.1	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.8		0.17	mg/kg	Soil Background	19	mg/kg
	10SB126	12.0-14.2	Arsenic	7.5		0.22	mg/kg	Soil Background	9.2	mg/kg
			Barium	50		0.16	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	2.2		0.04	mg/kg	Soil Background	0.67	mg/kg
	Chro	Chromium	11.5		0.1	mg/kg	Soil Background	24.9	mg/kg	
			Lead	99.7		0.17	mg/kg	Soil Background	19	mg/kg
			Mercury	0.07		0.04	mg/kg	30 TAC 335 Industrial Soil GWP	0.2	mg/kg
			1,4-Dichlorobenzene	0.88		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	7.5	mg/kg
			2-Methylnaphthalene	0.59		0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MS		mg/kg
			Bis(2-ethylhexyl)phthalate	2.6		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	2.04	mg/kg
			Di-n-butyl Phthalate	0.94		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			N-Nitrosodiphenylamine	1		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	1200	mg/kg
			Naphthalene	2.4		0.39	mg/kg	30 TAC 335 Industrial Soil GWP	409	mg/kg
			Phenanthrene	0.68		0.39	mg/kg	30TAC335 Ind Soil GWP Calc. MS	C 3070	mg/kg
			Chlorobenzene	0.18		0.006	mg/kg	30 TAC 335 Industrial Soil GWP	10	mg/kg
			Isopropyl Benzene	0.086	_	0.006	mg/kg	30TAC335 Ind Soil GWP Calc. MS		mg/kg
			n-Butylbenzene		D	0.78	mg/kg	30TAC335 Ind Soil GWP Calc. MS		mg/kg
			n-propylbenzene	0.21	_	0.006	mg/kg	30TAC335 Ind Soil GWP Calc. MS		mg/kg
			sec-Butylbenzene	1.1	Đ	0.78	mg/kg	30TAC335 Ind Soil GWP Calc. MS		mg/kg
			tert-Butylbenzene	0.017		0.006	mg/kg	30TAC335 Ind Soil GWP Calc. MS	C 102	mg/kg